LT-32X575/KA, LT-32X585/KA

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

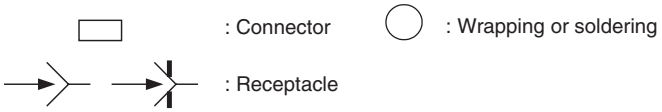
No unit	: [μH]
Others	: As specified

(4)Power Supply

∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

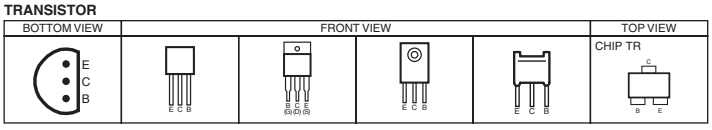
CONTENTS

USING P.W. BOARD

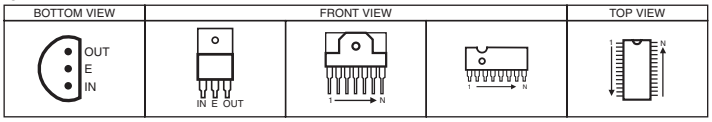
P.W.B ASS'Y name	LT-32X575/KA	LT-32X585/KA
ANALOG SIGNAL P.W.B	SFL-1012A-M2	←
CONNECTOR P.W.B	SFL-4011A-M2	←
FRONT CONTROL P.W.B	SFL-7011A-M2	←
FRONT SENSOR P.W.B	SFL-8011A-M2	←
POWER P.W.B	SFL-9005A-M2	←
REGURATOR P.W.B	SFL-9105A-M2	←
DIGITAL SIGNAL P.W.B	SFL0D105A-M2	SFL0D104A-M2
RECEIVER P.W.B	SFL0F101A-M2	←

SEMICONDUCTOR SHAPES

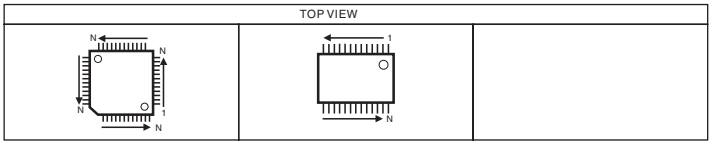
TRANSISTOR



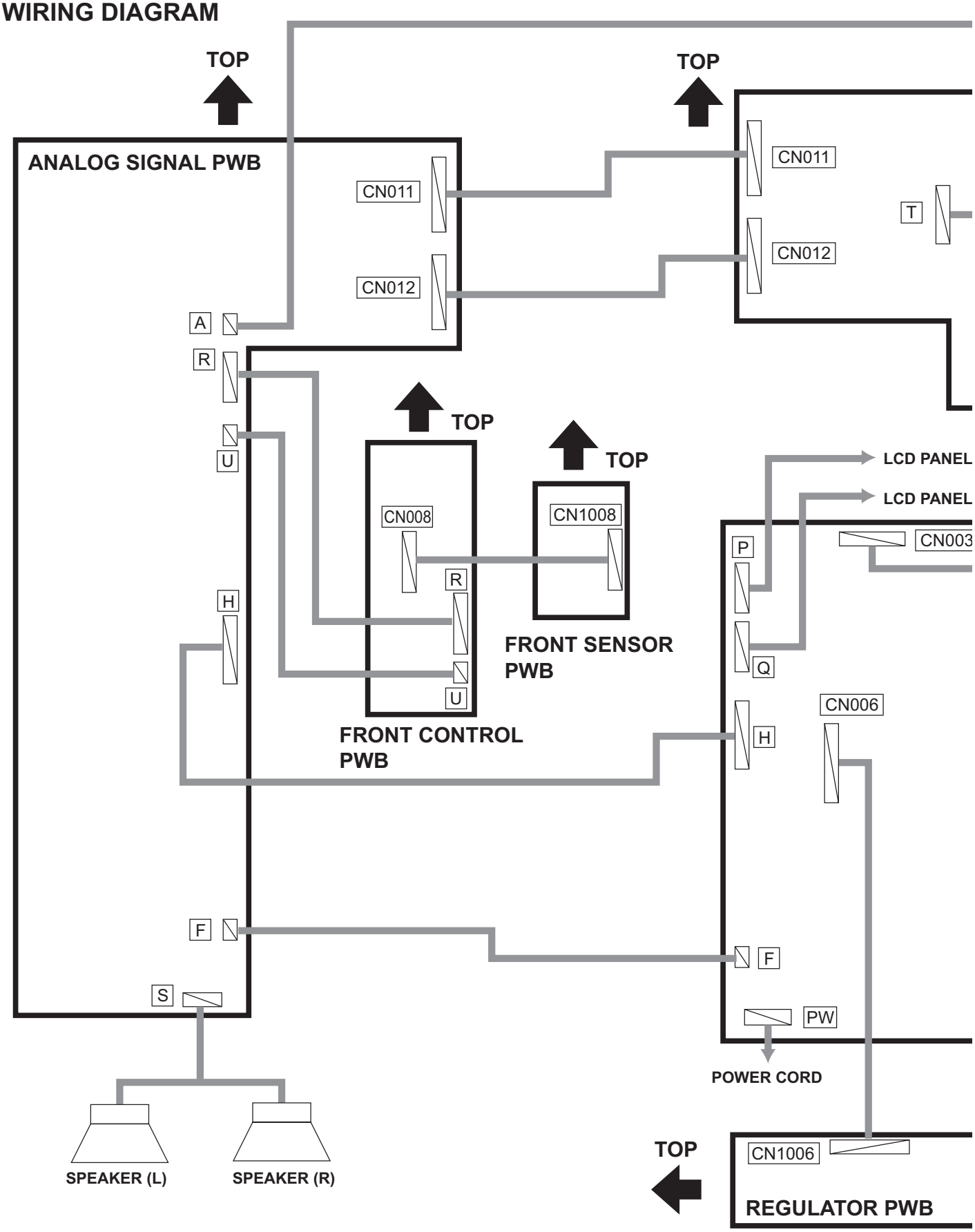
IC

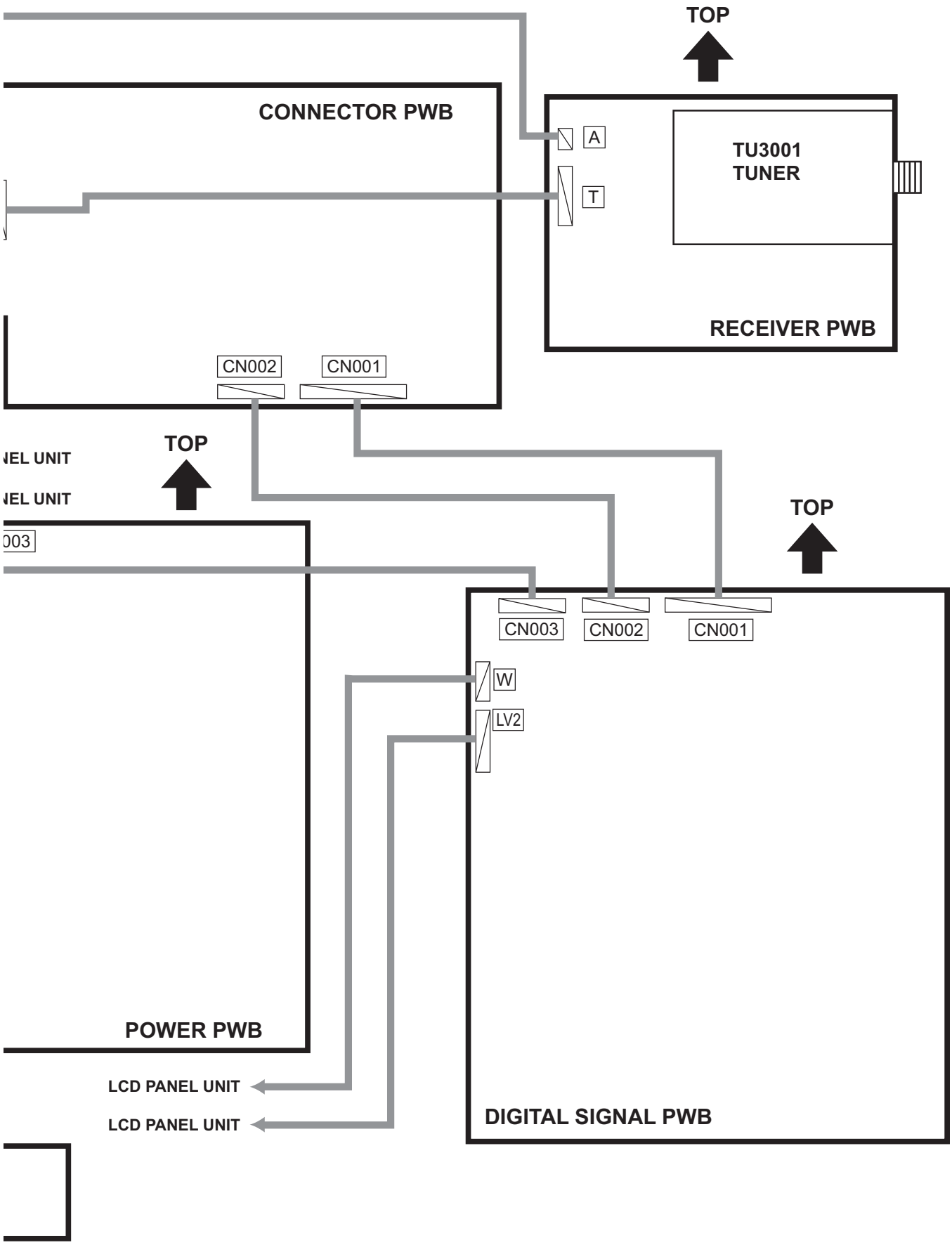


CHIP IC

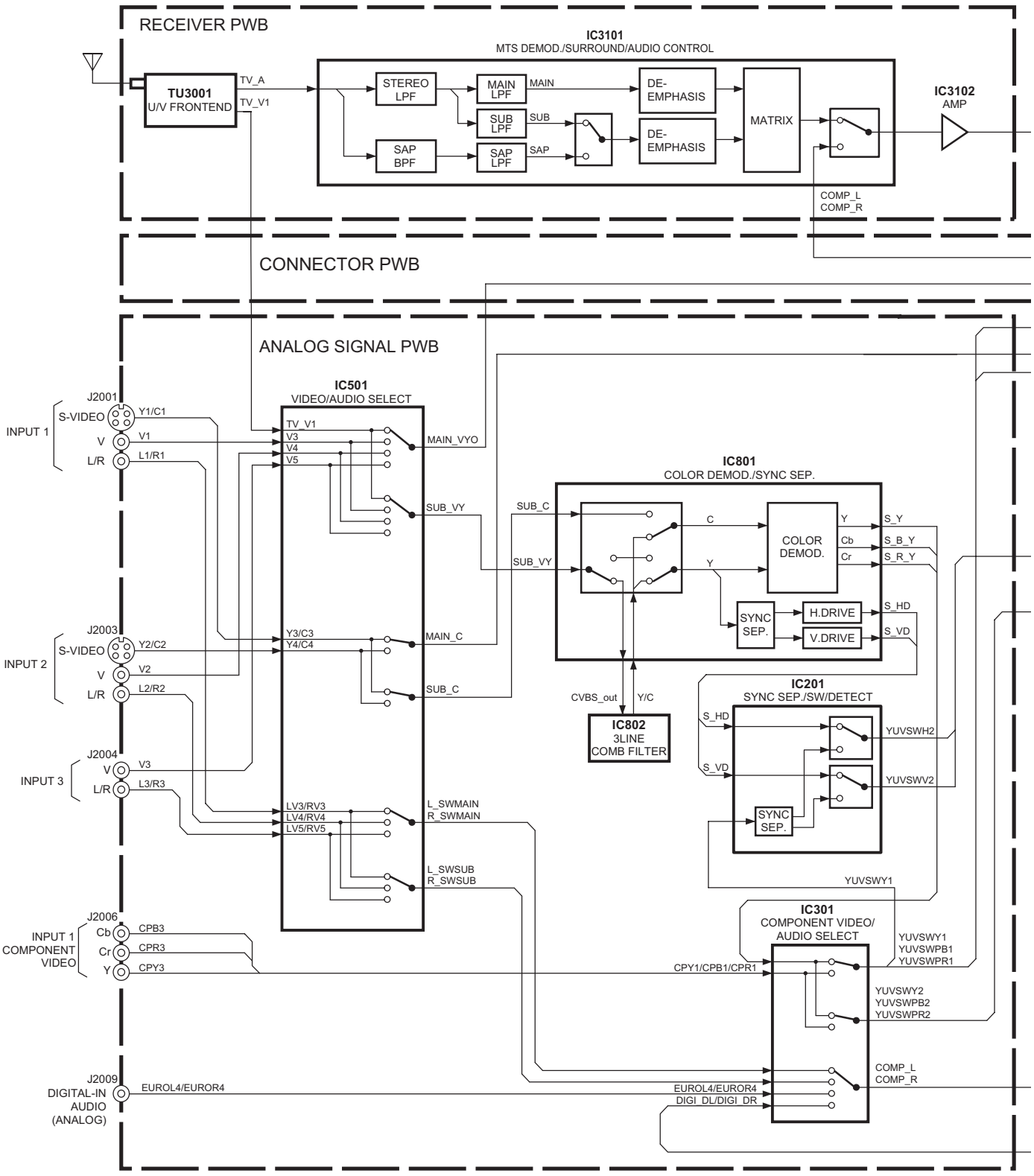


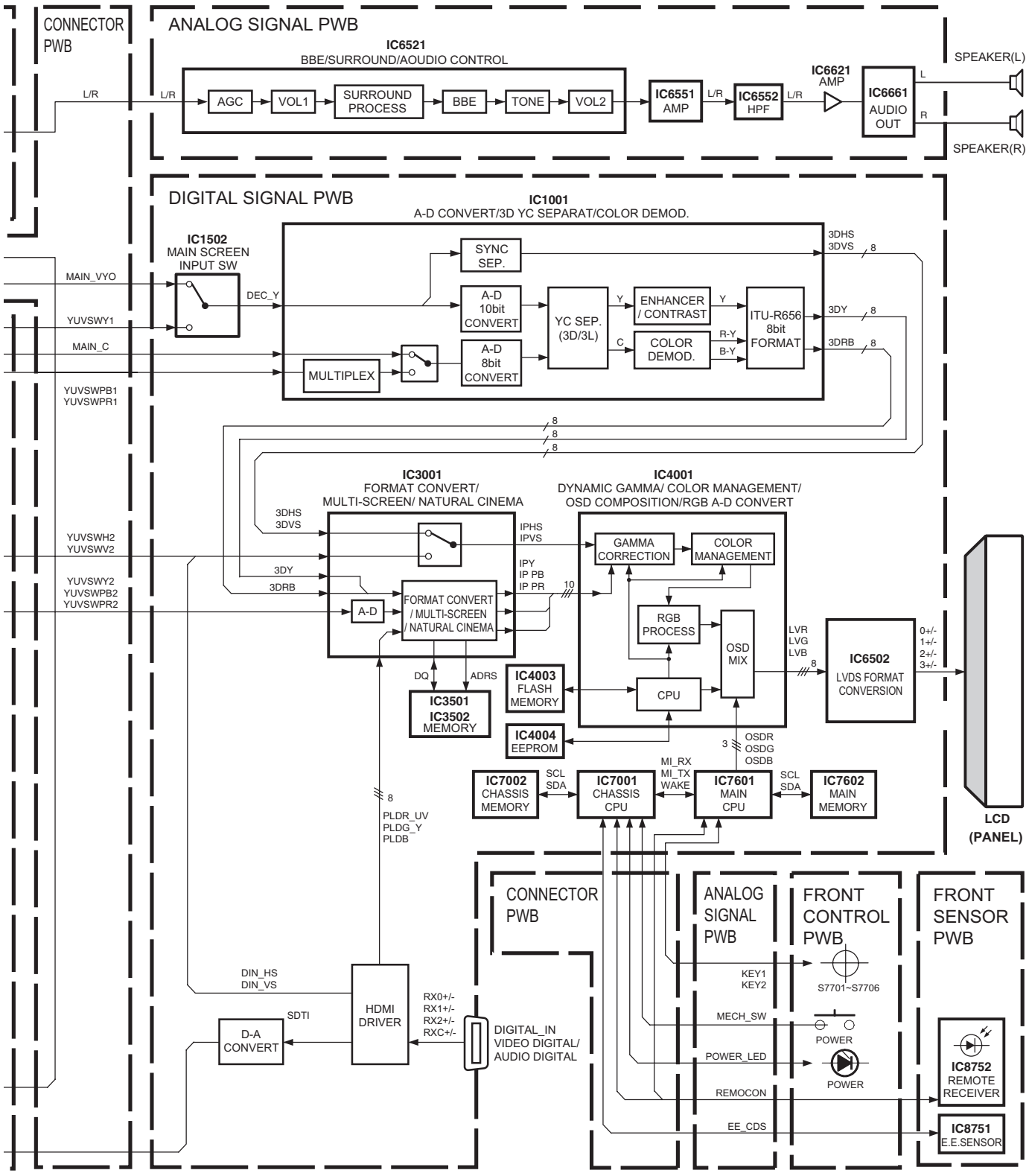
WIRING DIAGRAM




TOP
CONNECTOR PWB
A
T
TU3001
TUNER
RECEIVER PWB
CN002
CN001
TOP
NEL UNIT
NEL UNIT
003
TOP
CN003
CN002
CN001
W
LV2
POWER PWB
LCD PANEL UNIT
LCD PANEL UNIT
DIGITAL SIGNAL PWB

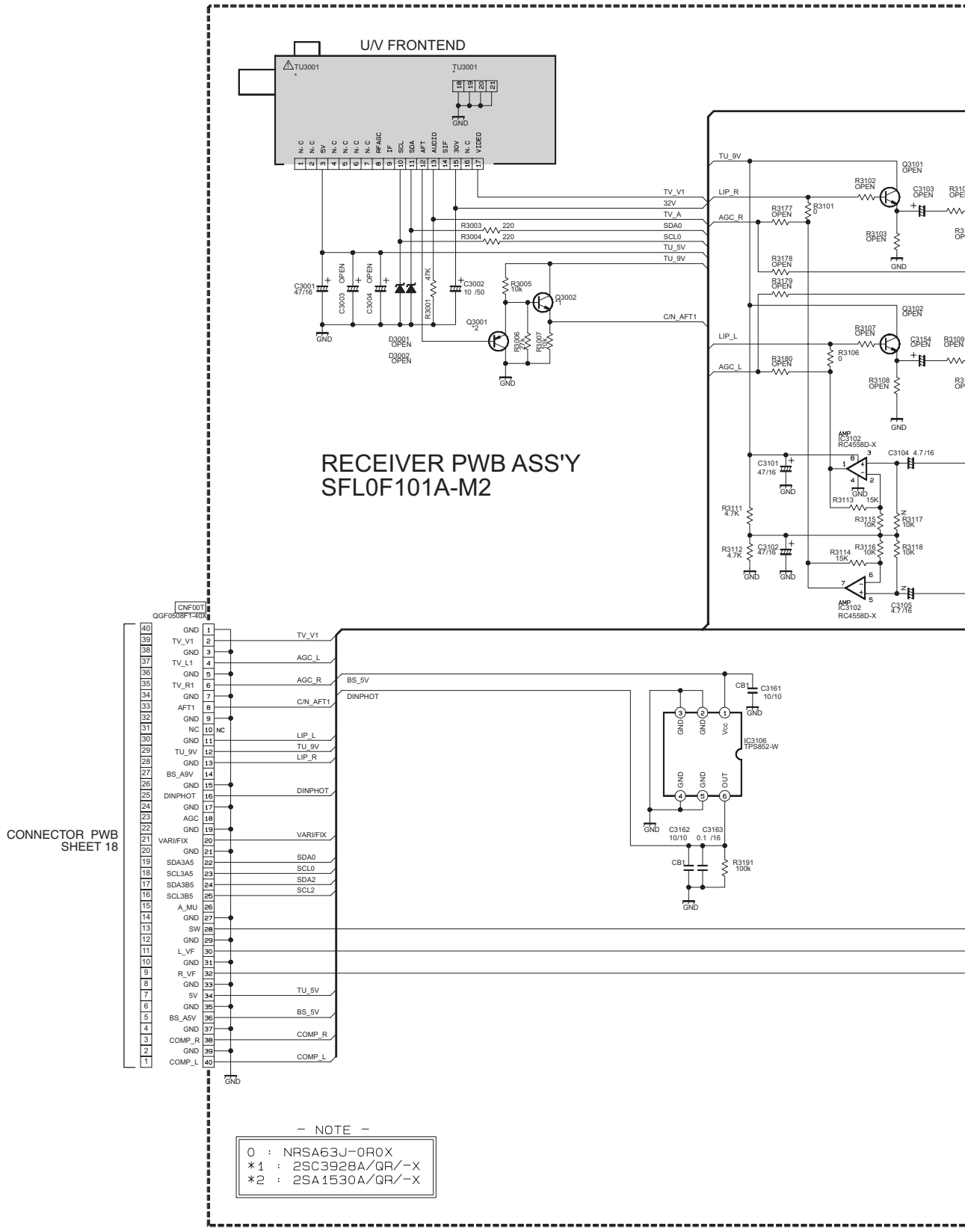
BLOCK DIAGRAM



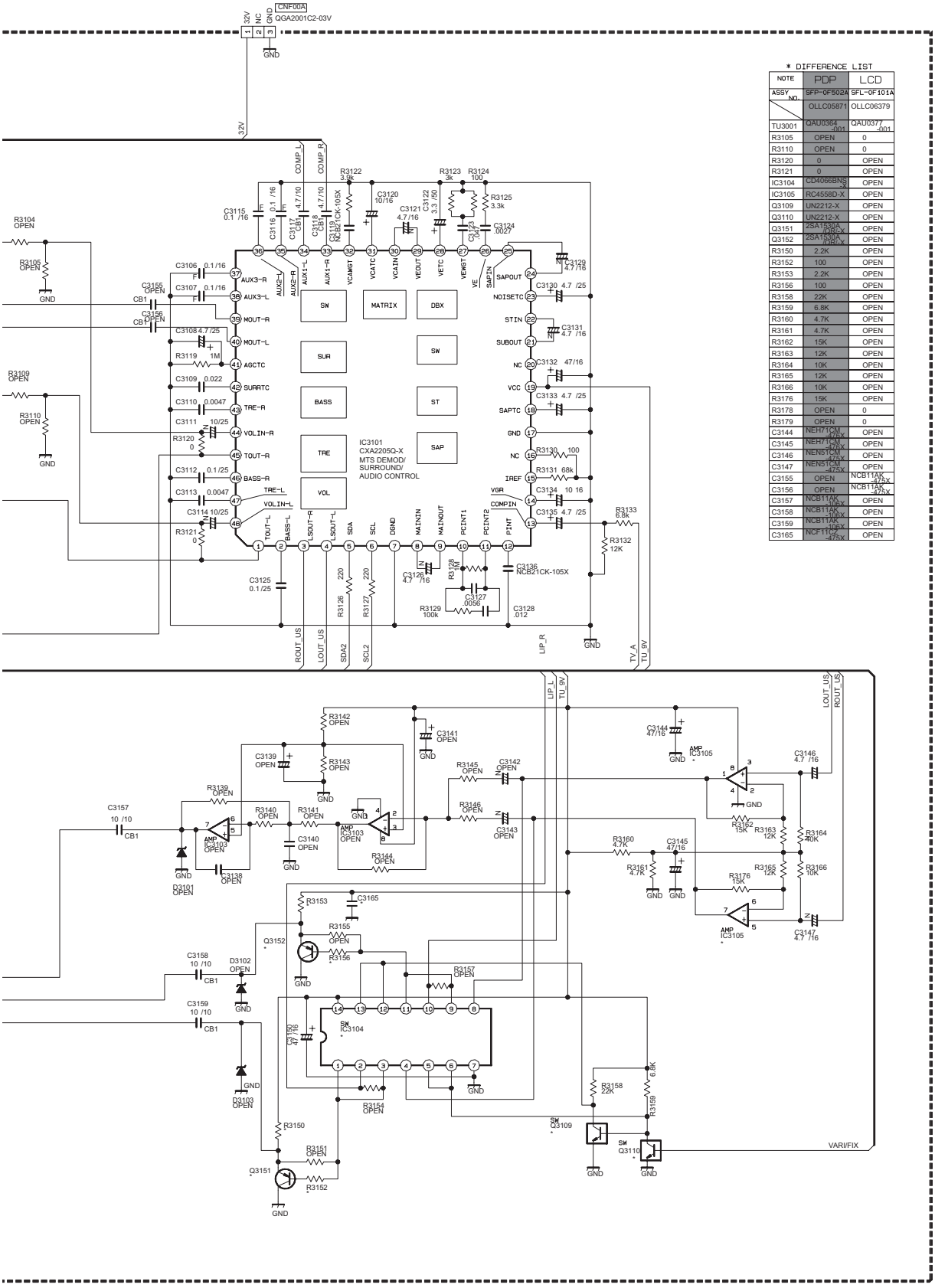

CONNECTOR PWB
ANALOG SIGNAL PWB
IC6521
BBE/SURROUND/AOUDIO CONTROL
L/R
AGC
VOL1
SURROUND PROCESS
BBE
TONE
VOL2
IC6551 AMP
IC6552 HPF
IC6621 AMP
IC6661 AUDIO OUT
L
R
SPEAKER(L)
SPEAKER(R)
DIGITAL SIGNAL PWB
IC1001
A-D CONVERT/3D YC SEPARAT/COLOR DEMOD.
IC1502
MAIN SCREEN INPUT SW
MAIN_VYO
YUVSWY1
MAIN_C
YUVSWPB1
YUVSWPR1
DEC_Y
SYNC SEP.
A-D 10bit CONVERT
A-D 8bit CONVERT
MULTIPLEX
YC SEP. (3D/3L)
ENHANCER / CONTRAST
COLOR DEMOD.
ITU-R656 8bit FORMAT
3DHS
3DVS
3DY
3DRB
IC3001
FORMAT CONVERT/ MULTI-SCREEN/ NATURAL CINEMA
IC4001
DYNAMIC GAMMA/ COLOR MANAGEMENT/ OSD COMPOSITION/RGB A-D CONVERT
YUVSWH2
YUVSWV2
YUVSWY2
YUVSWPB2
YUVSWPR2
A-D
FORMAT CONVERT / MULTI-SCREEN / NATURAL CINEMA
IPHS
IPVS
IPY
IP PB
IP PR
GAMMA CORRECTION
COLOR MANAGEMENT
RGB PROCESS
OSD MIX
CPU
LVR
LVG
LVB
IC6502
LVDS FORMAT CONVERSION
0+/-
1+/-
2+/-
3+/-
LCD (PANEL)
DQ
ADRS
IC3501
IC3502
MEMORY
IC4003
FLASH MEMORY
IC4004
EEPROM
OSDR
OSDG
OSDB
IC7002
CHASSIS MEMORY
SCL
SDA
IC7001
CHASSIS CPU
MI_RX
MI_TX
WAKE
IC7601
MAIN CPU
IC7602
MAIN MEMORY
PLDR_UV
PLDG_Y
PLDB
CONNECTOR PWB
ANALOG SIGNAL PWB
FRONT CONTROL PWB
FRONT SENSOR PWB
DIN_HS
DIN_VS
SDTI
D-A CONVERT
HDMI DRIVER
RX0+/-
RX1+/-
RX2+/-
RXC+/-
DIGITAL_IN
VIDEO DIGITAL/
AUDIO DIGITAL
KEY1
KEY2
S7701~S7706
MECH_SW
POWER
POWER_LED
POWER
REMOCON
EE_CDS
IC8752
REMOTE RECEIVER
IC8751
E.E.SENSOR

CIRCUIT DIAGRAMS

RECEIVER PWB CIRCUIT DIAGRAM SHEET1



ANALOG SIGNAL PWB(5/5)
SHEET 6

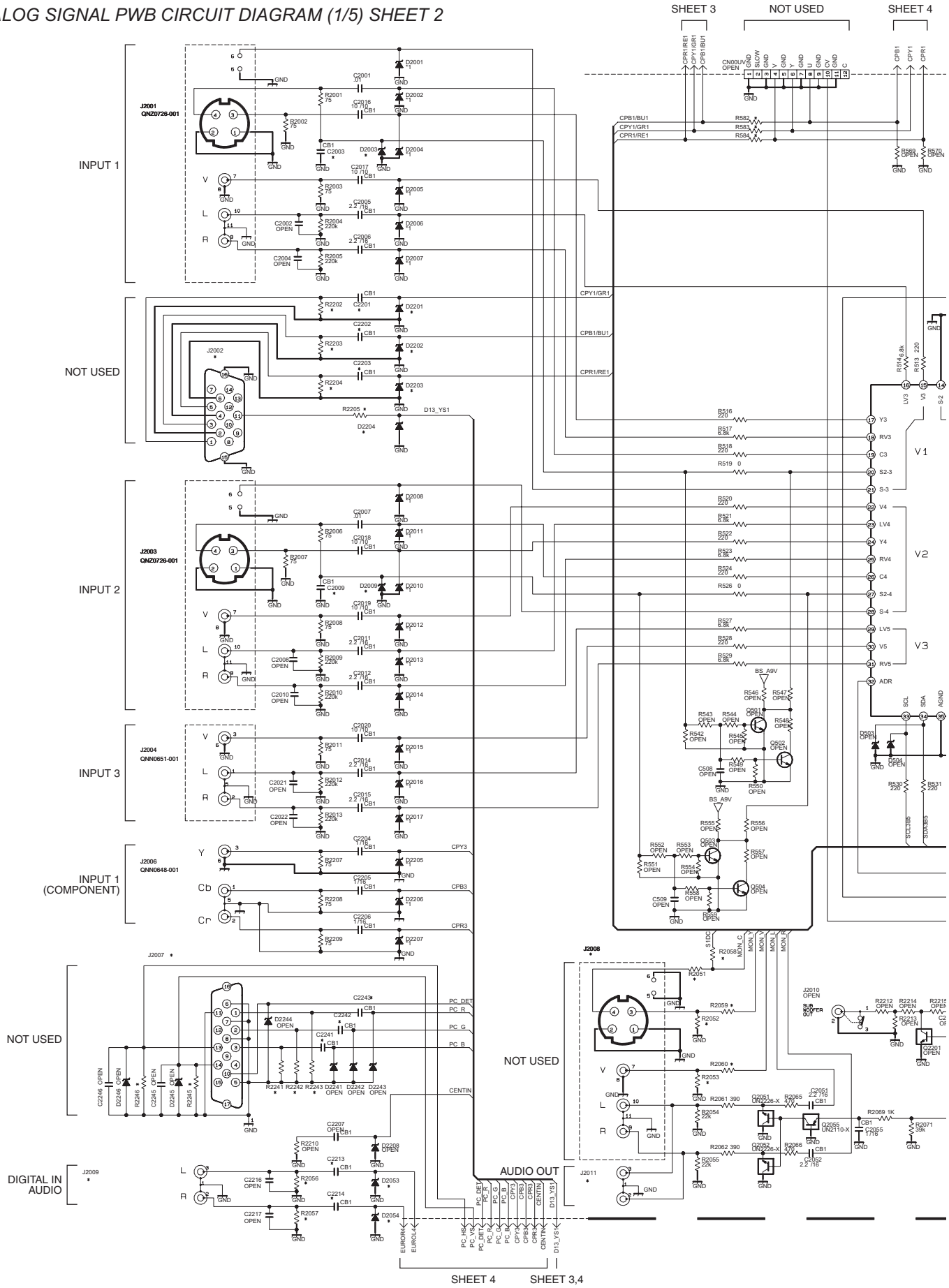


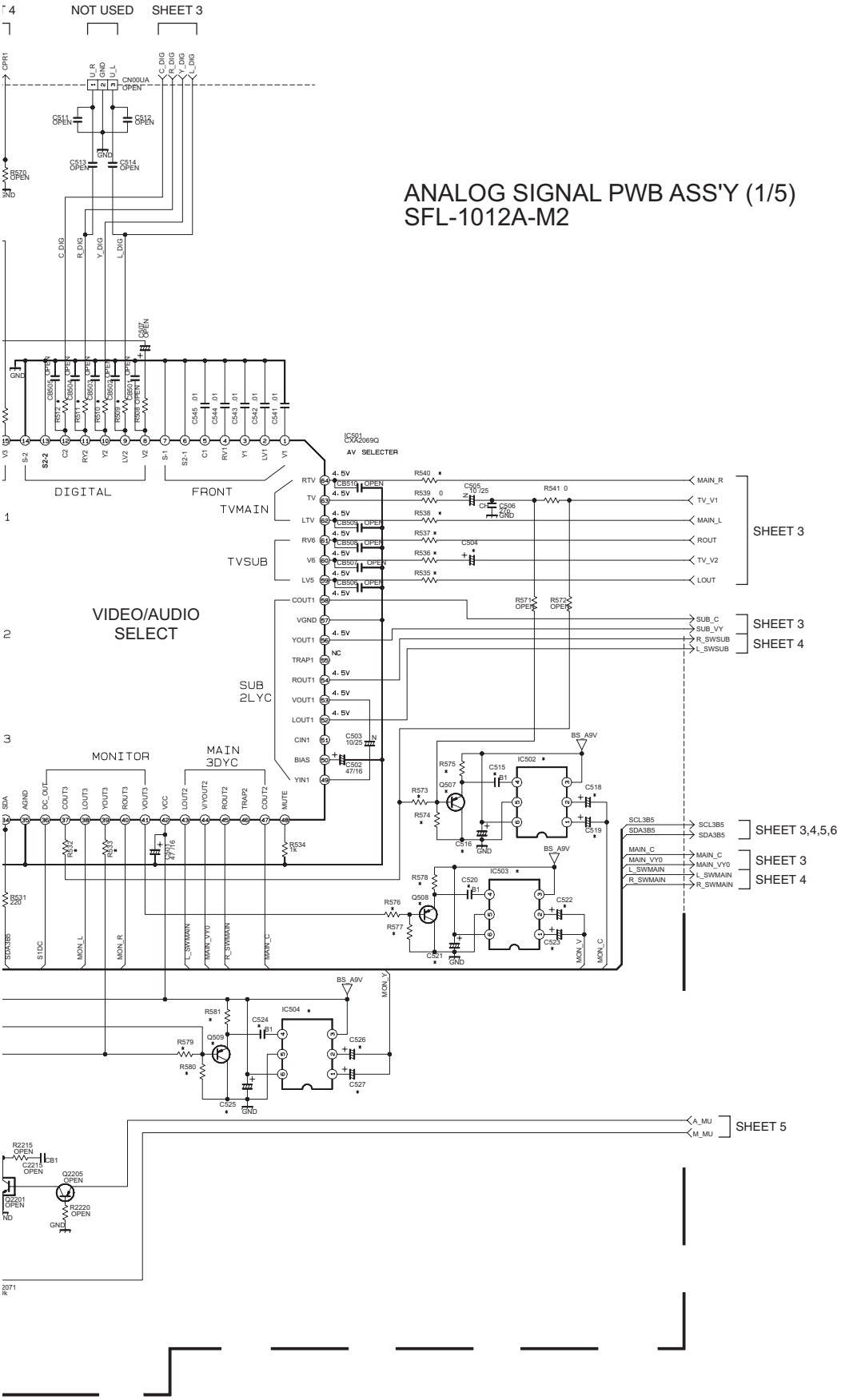
* DIFFERENCE LIST

NOTE	PDP	LCD
ASSY NO.	SFP-0F502A	SFL-0F101A
	OLLC05871	OLLC06379
TU3001	QAU0364 -001	QAU0377 -001
R3105	OPEN	0
R3110	OPEN	0
R3120	0	OPEN
R3121	0	OPEN
IC3104	CD4066BNS -X	OPEN
IC3105	RC4558D-X	OPEN
Q3109	UN2212-X	OPEN
Q3110	UN2212-X	OPEN
Q3151	2SA1530A (QR)-X	OPEN
Q3152	2SA1530A (QR)-X	OPEN
R3150	2.2K	OPEN
R3152	100	OPEN
R3153	2.2K	OPEN
R3156	100	OPEN
R3158	22K	OPEN
R3159	6.8K	OPEN
R3160	4.7K	OPEN
R3161	4.7K	OPEN
R3162	15K	OPEN
R3163	12K	OPEN
R3164	10K	OPEN
R3165	12K	OPEN
R3166	10K	OPEN
R3176	15K	OPEN
R3178	OPEN	0
R3179	OPEN	0
C3144	NEF71CM -476X	OPEN
C3145	NEF71CM -476X	OPEN
C3146	NEN51CM -475X	OPEN
C3147	NEN51CM -475X	OPEN
C3155	OPEN	NCB11AK -475X
C3156	OPEN	NCB11AK -475X
C3157	NCB11AK -106X	OPEN
C3158	NCB11AK -106X	OPEN
C3159	NCB11AK -106X	OPEN
C3165	NCF11CZ -475X	OPEN

c10267001b_1/1

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (1/5) SHEET 2





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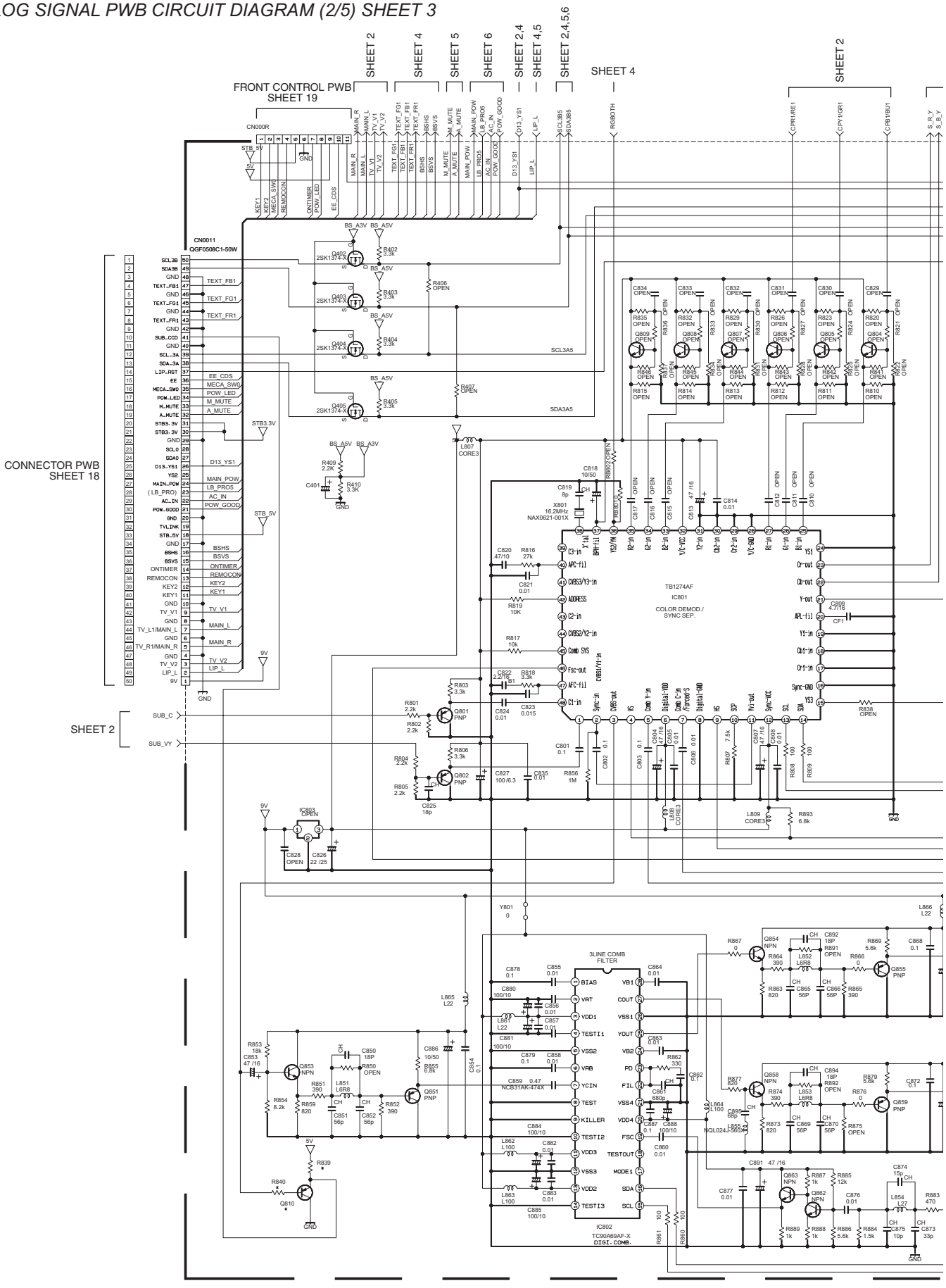
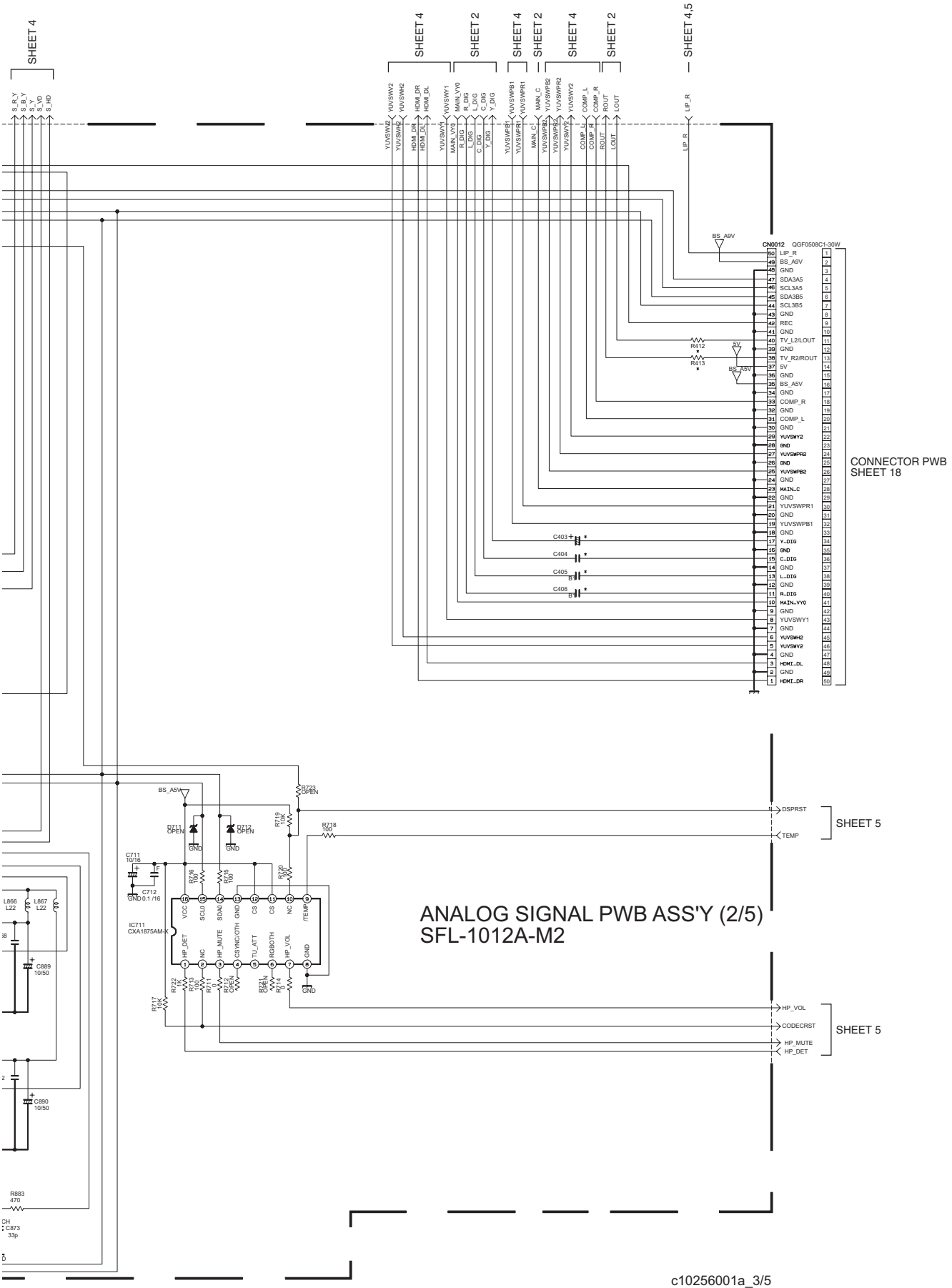
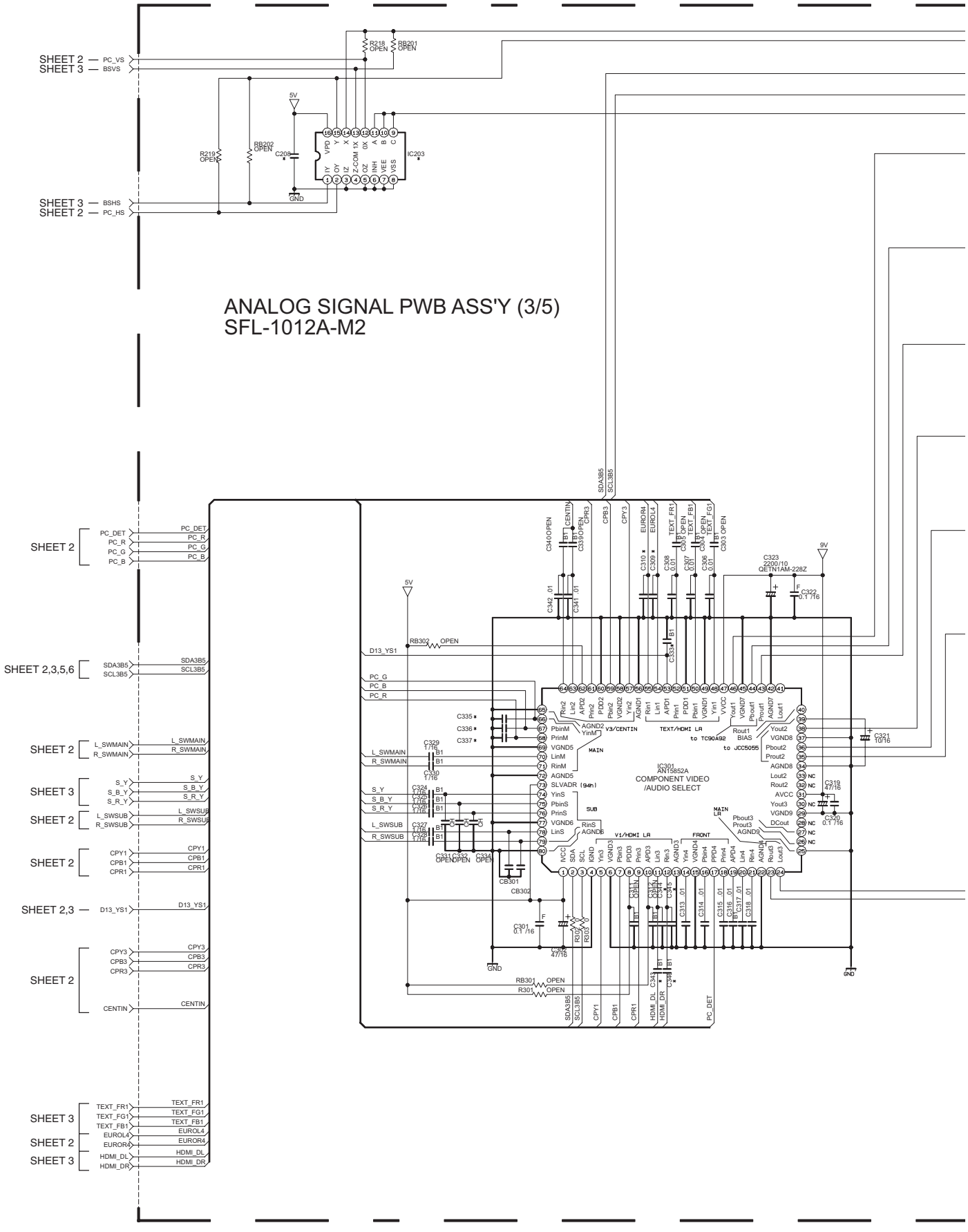
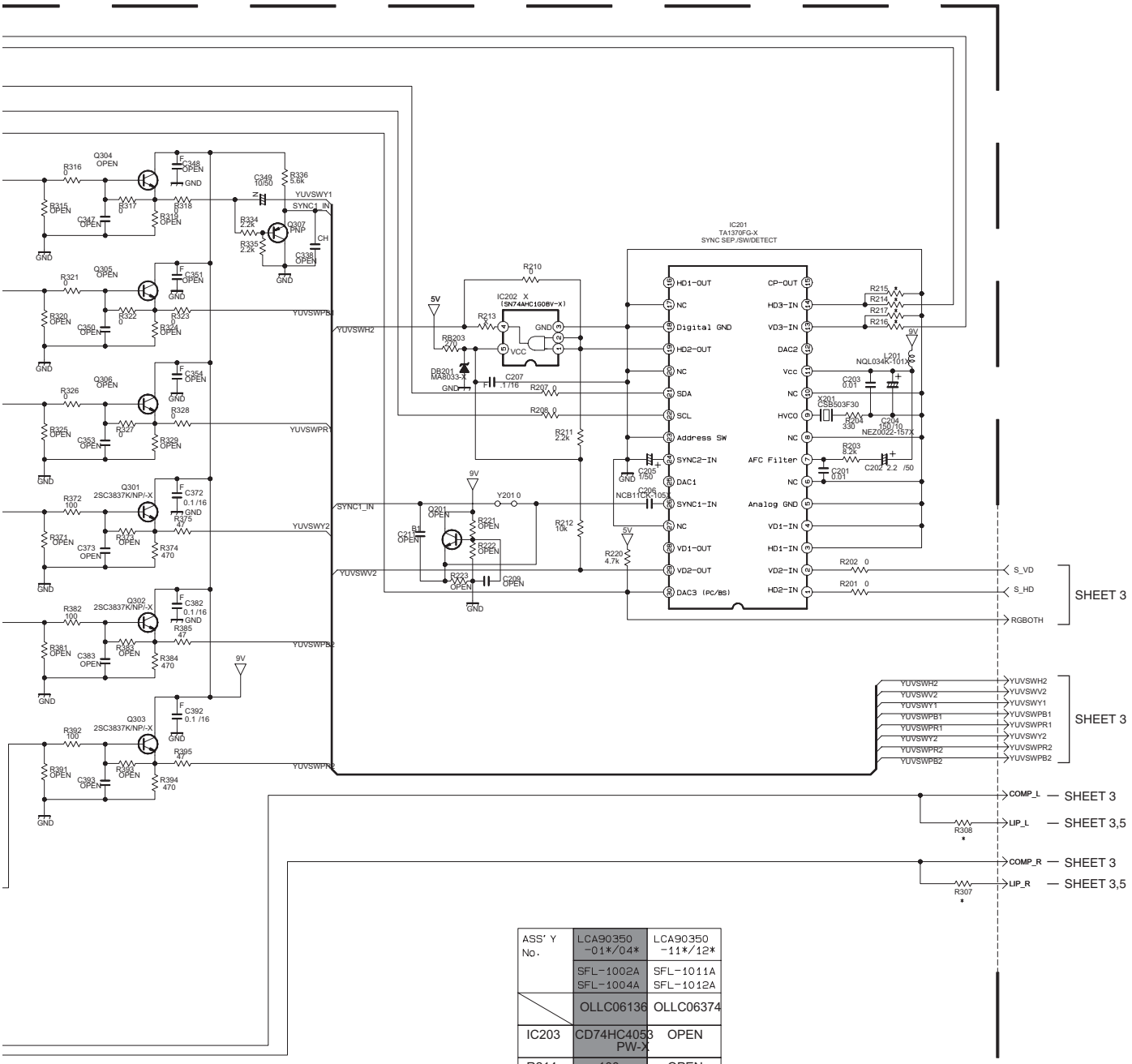
ANALOG SIGNAL PWB CIRCUIT DIAGRAM (2/5) SHEET 3



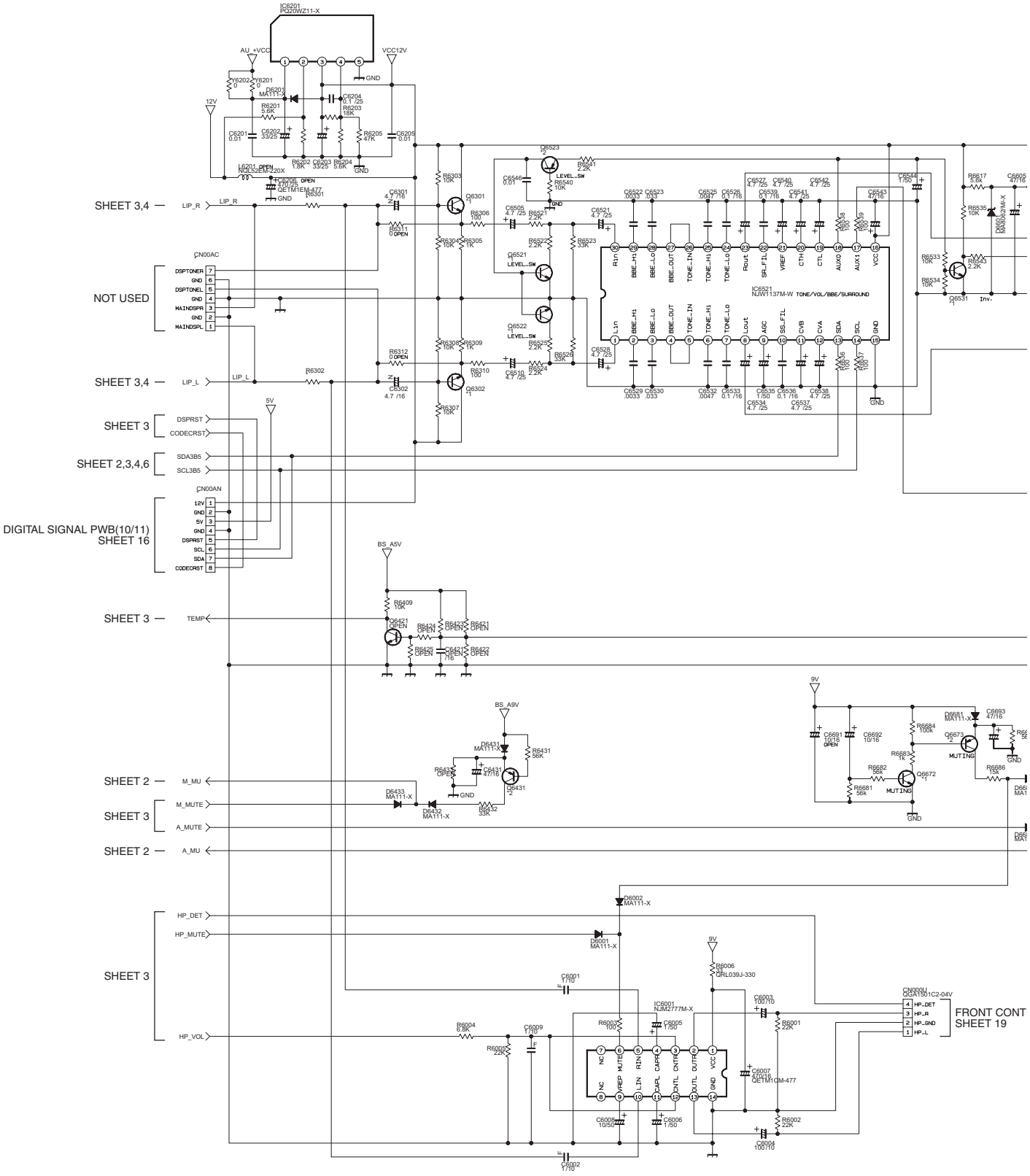

SHEET 4
SHEET 4
SHEET 2
SHEET 4
SHEET 2
SHEET 4
SHEET 2
SHEET 4,5
S_R_Y
S_B_Y
S_Y
S_VD
S_HD
YUVSWH2
YUVSWH2
HDMI_DR
HDMI_DL
YUVSWY1
MAIN_VY0
R_DIG
L_DIG
C_DIG
Y_DIG
YUVSWPB1
YUVSWPR1
MAIN_C
YUVSWPB2
YUVSWPR2
YUVSWY2
COMP_L
COMP_R
ROUT
LOUT
LIP_R
BS_A9V
CN0012 QGF0508C1-30W
50 LIP_R 1
49 BS_A9V 2
48 GND 3
47 SDA3A5 4
46 SCL3A5 5
45 SDA3B5 6
44 SCL3B5 7
43 GND 8
42 REC 9
41 GND 10
40 TV_L2/LOUT 11
39 GND 12
38 TV_R2/ROUT 13
37 5V 14
36 GND 15
35 BS_A5V 16
34 GND 17
33 COMP_R 18
32 GND 19
31 COMP_L 20
30 GND 21
29 YUVSWY2 22
28 GND 23
27 YUVSWPR2 24
26 GND 25
25 YUVSWPB2 26
24 GND 27
23 MAIN_C 28
22 GND 29
21 YUVSWPR1 30
20 GND 31
19 YUVSWPB1 32
18 GND 33
17 Y_DIG 34
16 GND 35
15 C_DIG 36
14 GND 37
13 L_DIG 38
12 GND 39
11 R_DIG 40
10 MAIN_VY0 41
9 GND 42
8 YUVSWY1 43
7 GND 44
6 YUVSWH2 45
5 YUVSWV2 46
4 GND 47
3 HDMI_DL 48
2 GND 49
1 HDMI_DR 50
R412 *
R413 *
5V
BS_A5V
C403 *
C404 *
C405 * B
C406 * B
CONNECTOR PWB
SHEET 18
BS_A5V
R723 OPEN
D711 OPEN
D712 OPEN
R719 10K
R718 100
DSPRST
TEMP
SHEET 5
C711 10/16
C712 0.1 /16
R726 10K
R725 10K
R720 10K
IC711 CXA1875AM-K
VCC
SCLO
SDAO
GND
CS
CS
NC
/TEMP
HP_DET
NC
HP_MUTE
CS/YNC/OTH
TU_ATT
RGBOTH
HP_VOL
GND
R722 1K
R710 10K
R711 0
R724 OPEN
R721 10K
R714 0
R717 10K
HP_VOL
CODECRST
HP_MUTE
HP_DET
SHEET 5
L866 L22
L867 L22
C889 10/50
C890 10/50
R883 470
C873 33p
ANALOG SIGNAL PWB ASS'Y (2/5)
SFL-1012A-M2
c10256001a_3/5


ANALOG SIGNAL PWB ASS'Y (3/5)
SFL-1012A-M2
SHEET 2 — PC_VS
SHEET 3 — BSVS
SHEET 3 — BSHS
SHEET 2 — PC_HS
R218 OPEN
RB201 OPEN
RB202 OPEN
R215 OPEN
C208 *
IC203 *
5V
GND
SHEET 2 — PC_DET, PC_R, PC_G, PC_B
SHEET 2,3,5,6 — SDA3B5, SCL3B5
SHEET 2 — L_SWMAIN, R_SWMAIN
SHEET 3 — S_Y, S_B_Y, S_R_Y
SHEET 2 — L_SWSUB, R_SWSUB
SHEET 2 — CPY1, CPB1, CPR1
SHEET 2,3 — D13_YS1
SHEET 2 — CPY3, CPB3, CPR3, CENTIN
SHEET 3 — TEXT_FR1, TEXT_FG1, TEXT_FB1
SHEET 2 — EUROL4, EURO4R
SHEET 3 — HDMI_DL, HDMI_DR
IC301
AN15952A
COMPONENT VIDEO
/AUDIO SELECT
MAIN
SUB
V3/CENTIN
V1/HDMI LR
TEXT/HDMI LR
FRONT
MAIN LR
to TC90A92
to JCC5055
C323 2200/10 QETN1AM-228Z
9V
C321 10/16
C322 0.1 /16
C320 0.1 /16
C301 0.1 /16
C302 47/16
C318 47/16
CB301
CB302
RB301 OPEN
R301 OPEN
RB302 OPEN
R302
R303

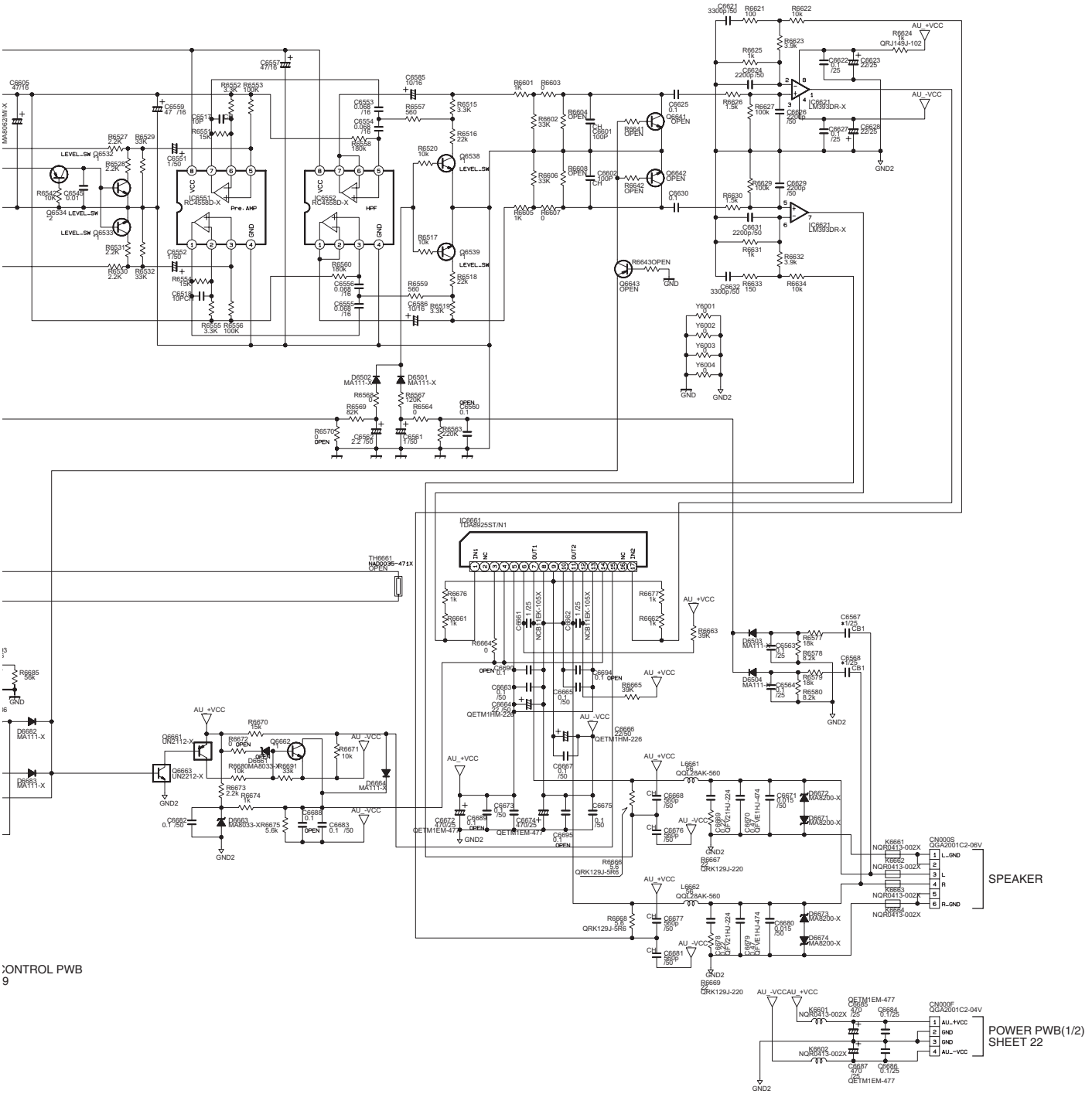


ASS' Y No.	LCA90350 -01*/04*	LCA90350 -11*/12*
	SFL-1002A SFL-1004A	SFL-1011A SFL-1012A
	OLLC06136	OLLC06374
IC203	CD74HC4053 PW-X	OPEN
R214	100	OPEN
R215	OPEN	0
R216	100	OPEN
R217	OPEN	0
R307	0	OPEN
R308	0	OPEN
C208	0.01 /50	OPEN
C309	0.01	OPEN
C310	0.01	OPEN
C333	1 /16	OPEN
C335	OPEN	0.01
C336	OPEN	0.01
C337	OPEN	0.01
C343	OPEN	1/16
C344	0.01	OPEN
C345	0.01	OPEN
C346	OPEN	1/16

c10256001a_2/5


IC6201
PQ20WZ11-X
AU_+VCC
VCC12V
12V
5V
9V
GND
SHEET 3,4
LIP_R
LIP_L
SHEET 3
DSPRST
CODECRST
SHEET 2,3,4,6
SDA3B5
SCL3B5
DIGITAL SIGNAL PWB(10/11)
SHEET 16
CN00AC
CN00AN
NOT USED
DSPTONER
DSPTONEL
MAINDSPR
MAINDSPL
IC6521
NJW1137M-W TONE/VOL/BBE/SURROUND
SHEET 2
M_MU
M_MUTE
SHEET 3
A_MUTE
A_MU
SHEET 2
TEMP
BS_A5V
BS_A9V
HP_DET
HP_MUTE
SHEET 3
HP_VOL
IC6001
NJM2777M-X
CN000U
FRONT CONT
SHEET 19
MUTING
LEVEL_SW

ANALOG SIGNAL PWB ASS'Y (4/5)
SFL-1012A-M2



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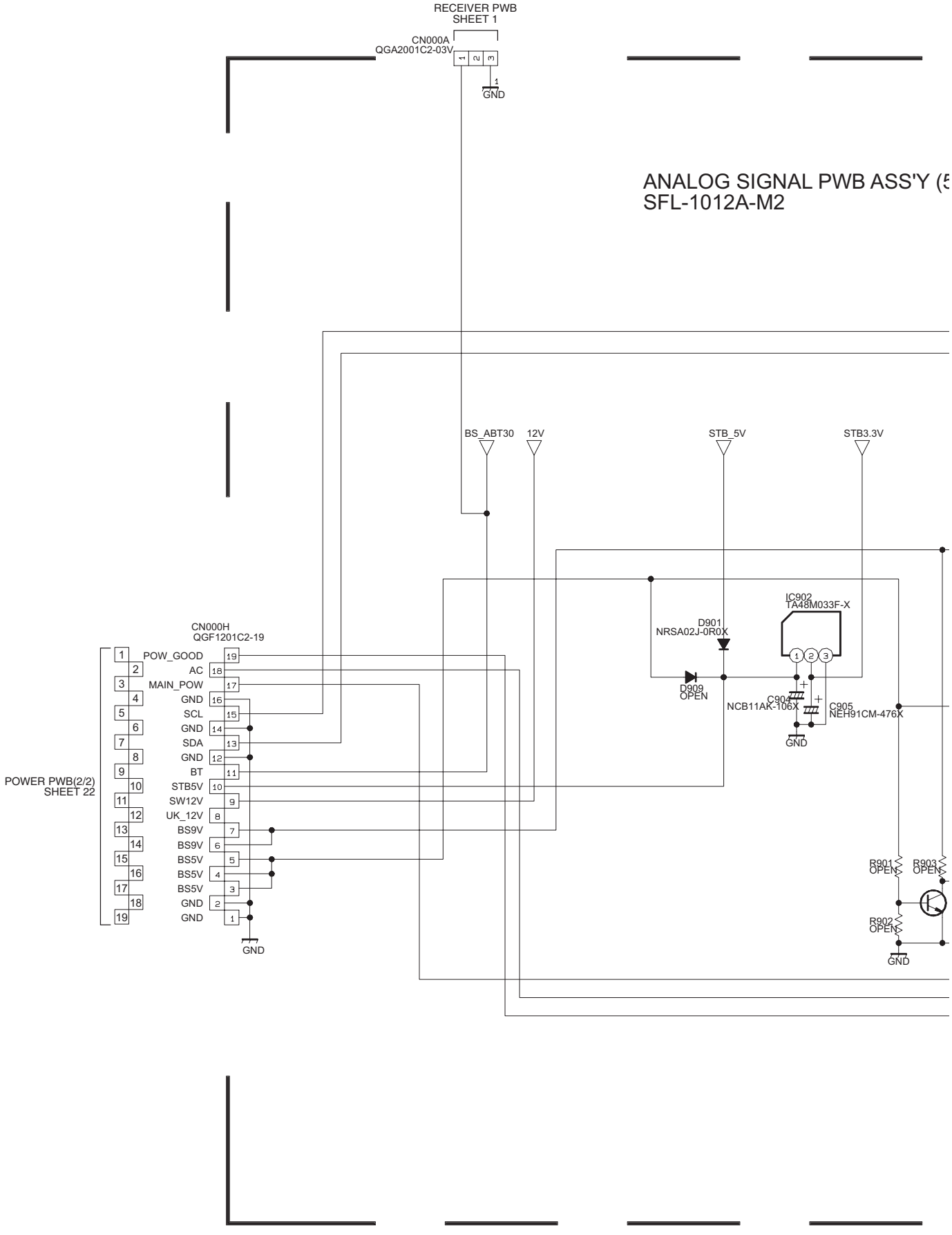
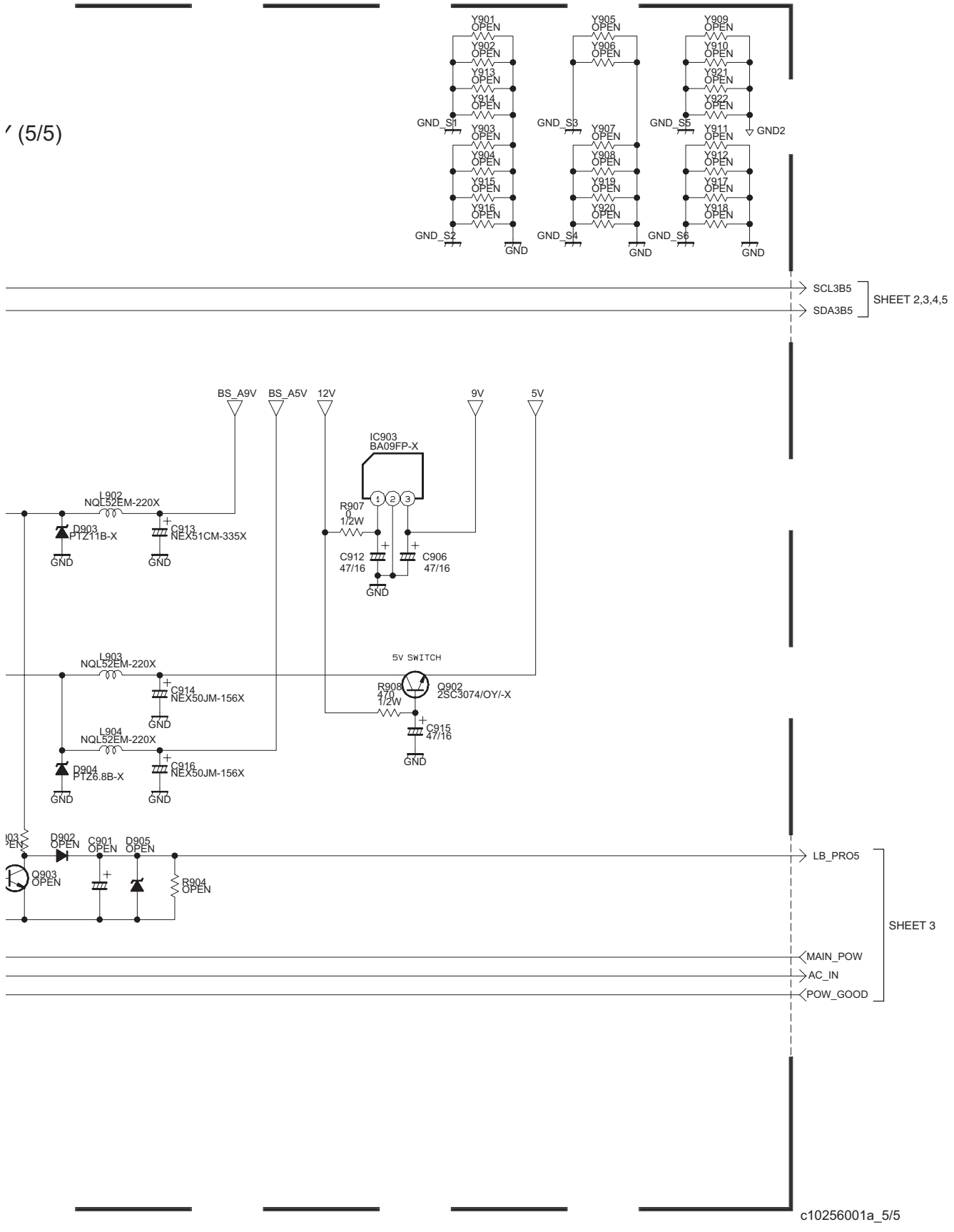
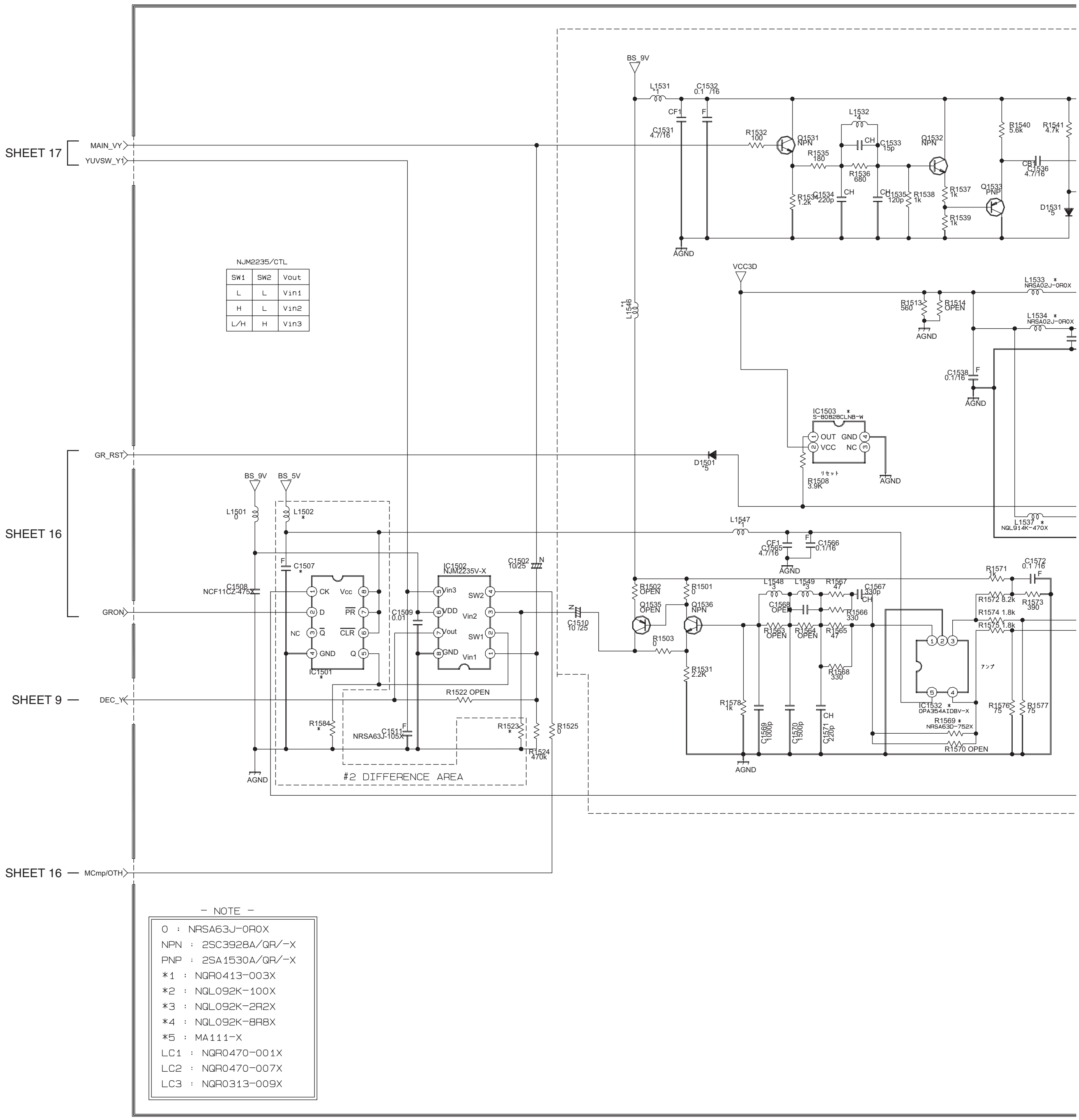
ANALOG SIGNAL PWB CIRCUIT DIAGRAM (5/5) SHEET 6




(5/5)
Y901 OPEN
Y902 OPEN
Y913 OPEN
Y914 OPEN
Y903 OPEN
Y904 OPEN
Y915 OPEN
Y916 OPEN
Y905 OPEN
Y906 OPEN
Y907 OPEN
Y908 OPEN
Y919 OPEN
Y920 OPEN
Y909 OPEN
Y910 OPEN
Y921 OPEN
Y922 OPEN
Y911 OPEN
Y912 OPEN
Y917 OPEN
Y918 OPEN
GND_S1
GND_S2
GND_S3
GND_S4
GND_S5
GND_S6
GND
GND2
SCL3B5
SDA3B5
SHEET 2,3,4,5
BS_A9V
BS_A5V
12V
9V
5V
IC903
BA09FP-X
L902
NQL52EM-220X
D903
PTZ11B-X
C913
NEX51CM-335X
R907
0
1/2W
C912
47/16
C906
47/16
L903
NQL52EM-220X
C914
NEX50JM-156X
5V SWITCH
R908
470
1/2W
Q902
2SC3074/OY/-X
C915
47/16
L904
NQL52EM-220X
D904
PTZ6.8B-X
C916
NEX50JM-156X
D902
OPEN
C901
OPEN
D905
OPEN
Q903
OPEN
R904
OPEN
LB_PRO5
SHEET 3
MAIN_POW
AC_IN
POW_GOOD
c10256001a_5/5



NJM2235/CTL

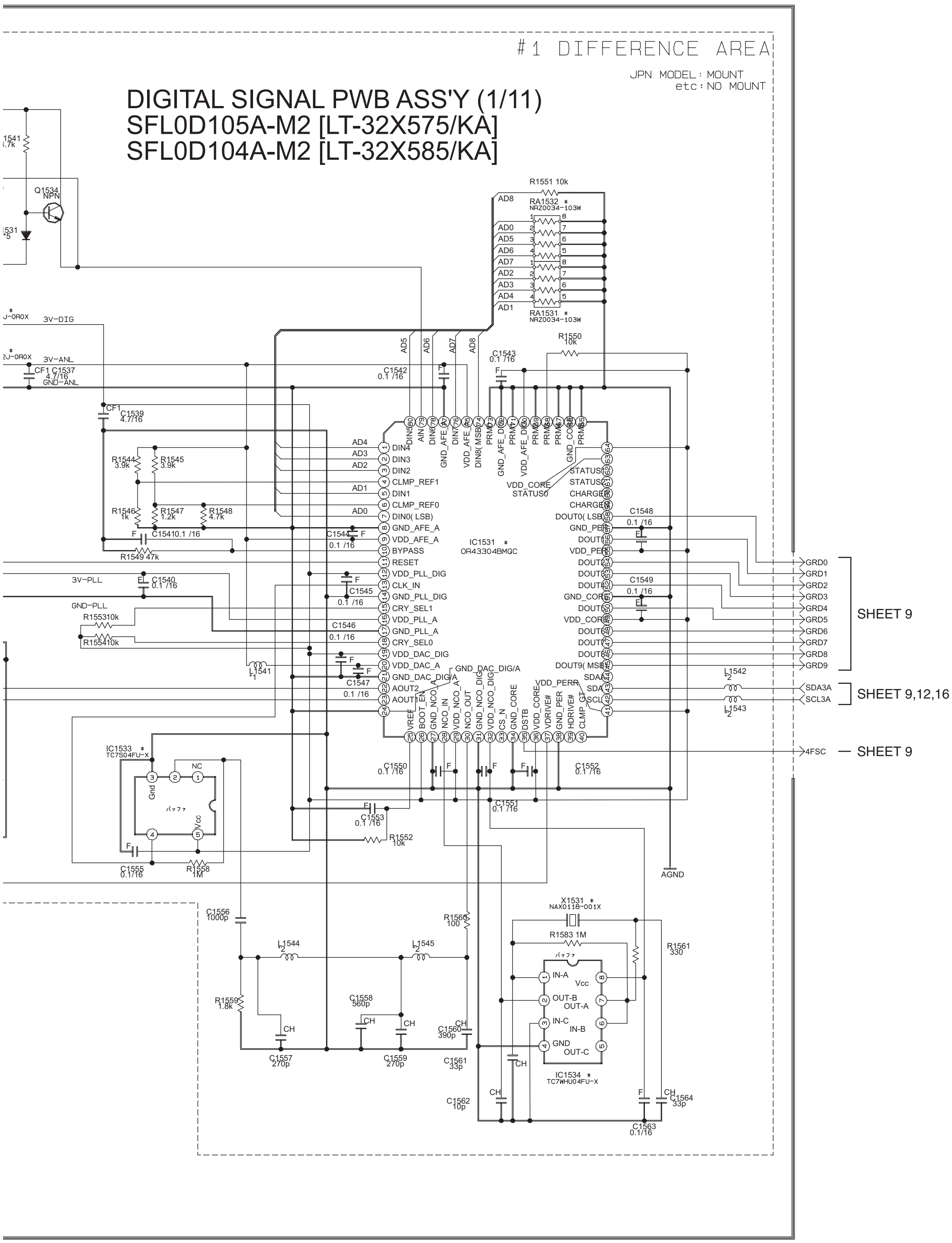
SW1	SW2	Vout
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

- NOTE -

O : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
*1 : NQR0413-003X
*2 : NQL092K-100X
*3 : NQL092K-2R2X
*4 : NQL092K-8R8X
*5 : MA111-X
LC1 : NQR0470-001X
LC2 : NQR0470-007X
LC3 : NQR0313-009X

#2 DIFFERENCE LIST
(JPN MODEL/ etc)

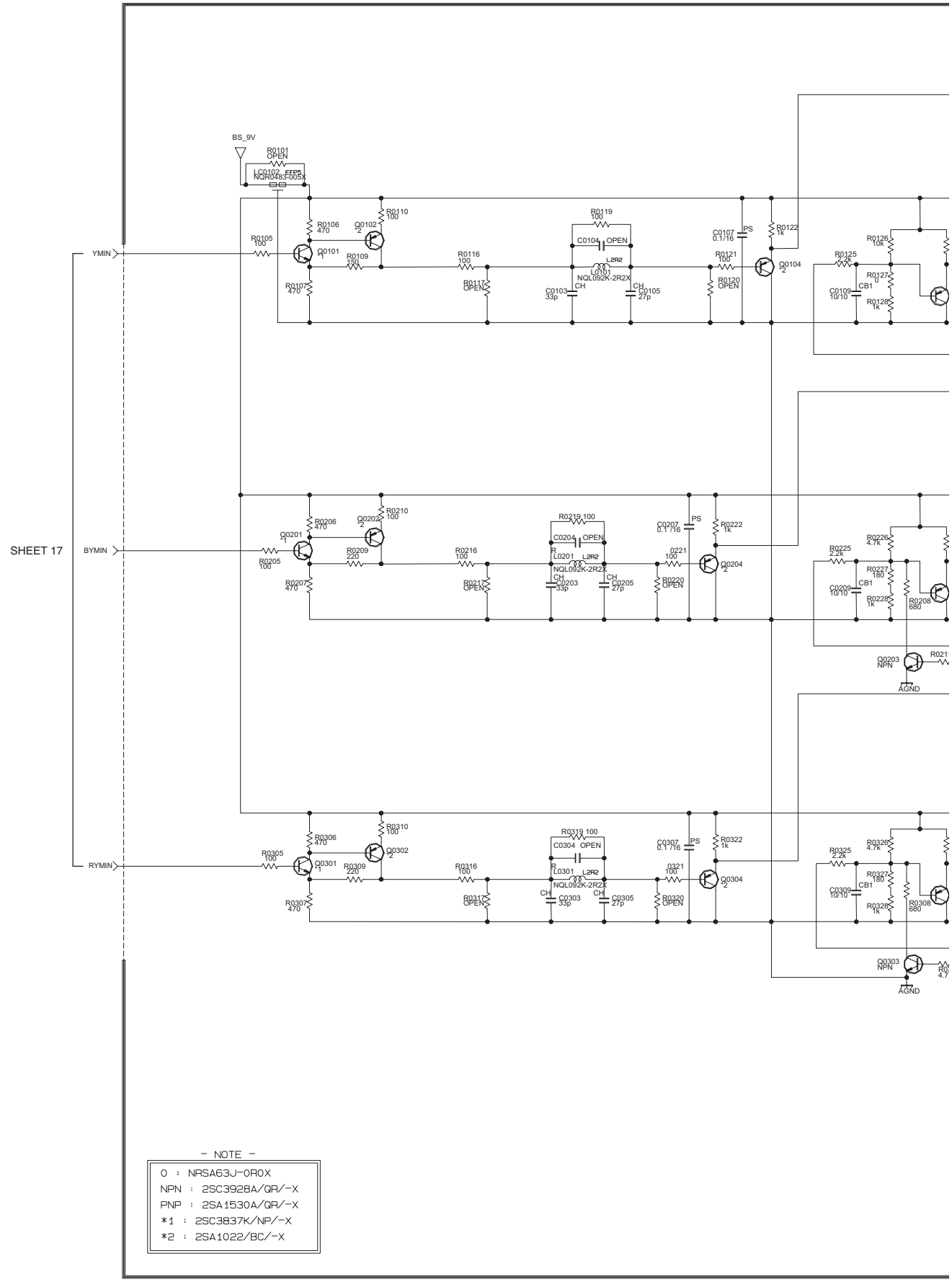
NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
L1502	*1	OPEN	OPEN	OPEN
C1507	0.1/16	OPEN	OPEN	OPEN
IC1501	TC7W74 F-X	OPEN	OPEN	OPEN
R1584	OPEN	0	0	0
R1523	1M	NCF31CZ -104X	NCF31CZ -104X	NCF31CZ -104X

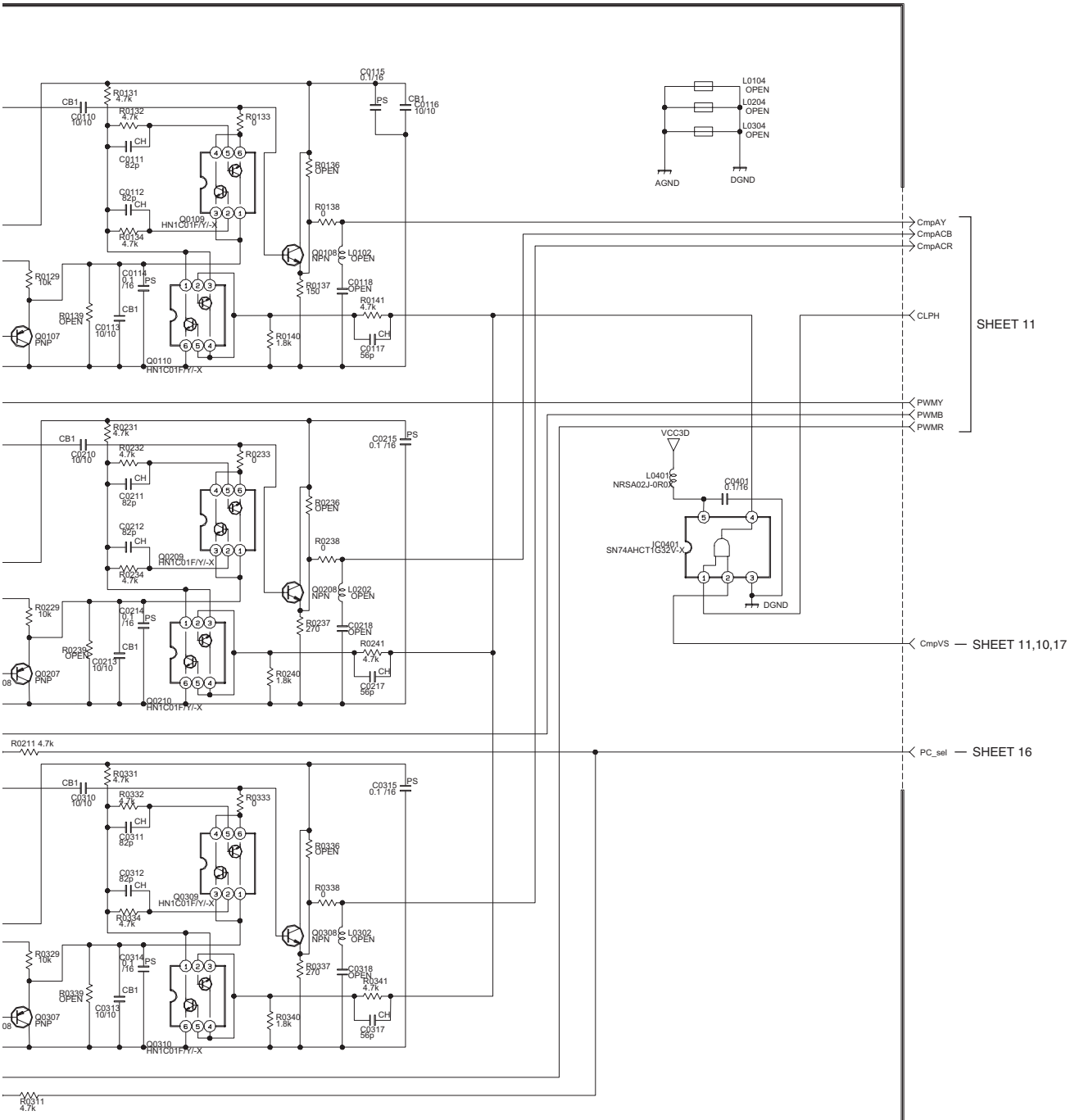


※The blank part of a difference list
: Refer to circuit block.

#1 DIFFERENCE LIST
(JPN MODEL/ etc)

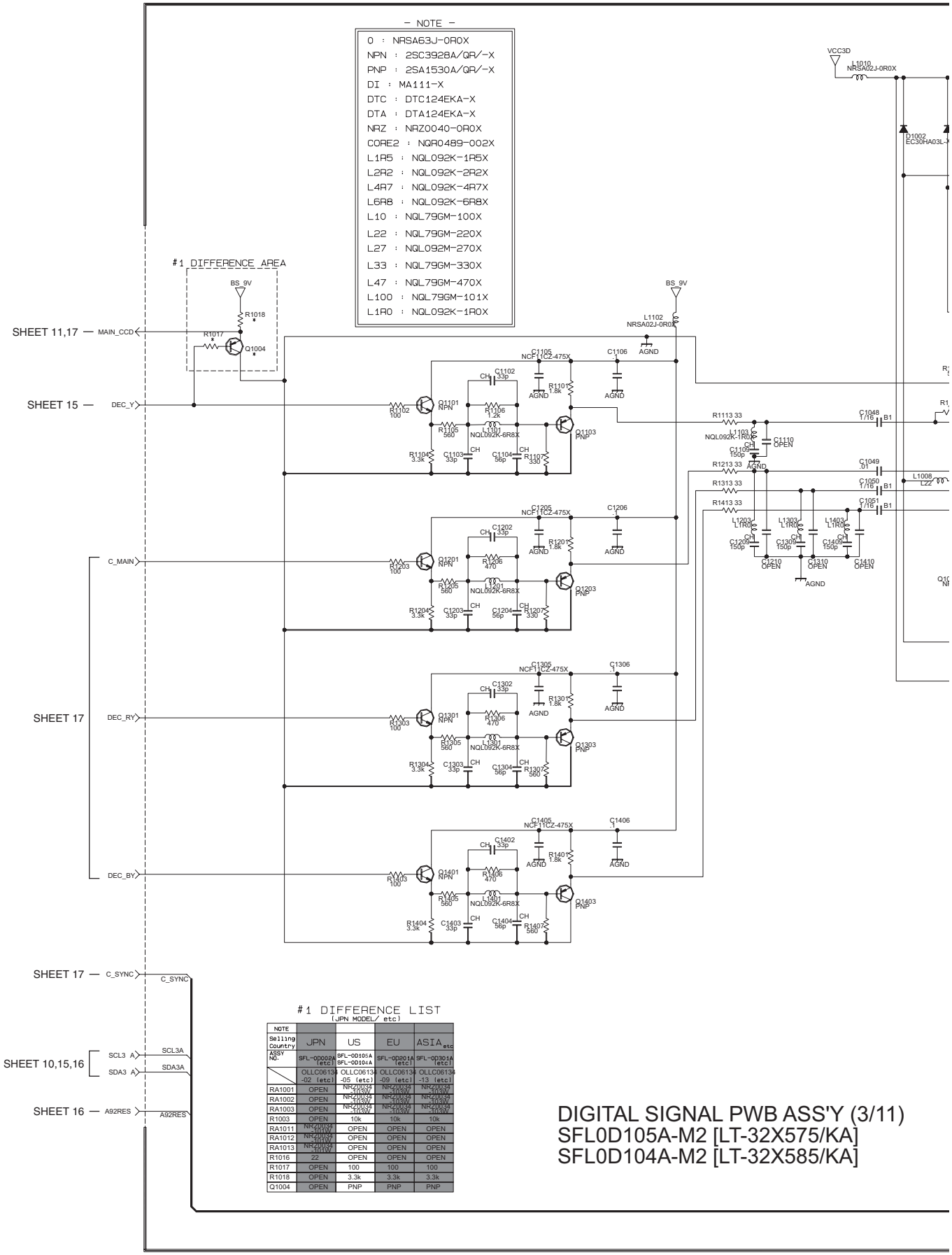
NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
X1531	NAX0118 -001X	OPEN	OPEN	OPEN
RA1531	NRZ0034 -103W	OPEN	OPEN	OPEN
RA1532	NRZ0034 -103W	OPEN	OPEN	OPEN
R1501		OPEN	OPEN	OPEN
R1503		OPEN	OPEN	OPEN
R1508		OPEN	OPEN	OPEN
R1513		OPEN	OPEN	OPEN
R1531		OPEN	OPEN	OPEN
R1532		OPEN	OPEN	OPEN
R1534		OPEN	OPEN	OPEN
R1535		OPEN	OPEN	OPEN
R1536		OPEN	OPEN	OPEN
R1537		OPEN	OPEN	OPEN
R1538		OPEN	OPEN	OPEN
R1539		OPEN	OPEN	OPEN
R1540		OPEN	OPEN	OPEN
R1541		OPEN	OPEN	OPEN
R1544		OPEN	OPEN	OPEN
R1545		OPEN	OPEN	OPEN
R1546		OPEN	OPEN	OPEN
R1547		OPEN	OPEN	OPEN
R1548		OPEN	OPEN	OPEN
R1549		OPEN	OPEN	OPEN
R1550		OPEN	OPEN	OPEN
R1551		OPEN	OPEN	OPEN
R1552		OPEN	OPEN	OPEN
R1553		OPEN	OPEN	OPEN
R1554		OPEN	OPEN	OPEN
R1558		OPEN	OPEN	OPEN
R1559		OPEN	OPEN	OPEN
R1560		OPEN	OPEN	OPEN
R1561		OPEN	OPEN	OPEN
R1565		OPEN	OPEN	OPEN
R1566		OPEN	OPEN	OPEN
R1567		OPEN	OPEN	OPEN
R1568		OPEN	OPEN	OPEN
R1569	NRSA63D -752X	OPEN	OPEN	OPEN
R1571		OPEN	OPEN	OPEN
R1572		OPEN	OPEN	OPEN
R1573		OPEN	OPEN	OPEN
R1574		OPEN	OPEN	OPEN
R1575		OPEN	OPEN	OPEN
R1576		OPEN	OPEN	OPEN
R1577		OPEN	OPEN	OPEN
R1578		OPEN	OPEN	OPEN
R1583		OPEN	OPEN	OPEN
Q1531		OPEN	OPEN	OPEN
Q1532		OPEN	OPEN	OPEN
Q1533		OPEN	OPEN	OPEN
Q1534		OPEN	OPEN	OPEN
Q1536		OPEN	OPEN	OPEN
L1531		OPEN	OPEN	OPEN
L1532		OPEN	OPEN	OPEN
L1533	NRSA02J -0R0X	OPEN	OPEN	OPEN
L1534	NRSA02J -0R0X	OPEN	OPEN	OPEN
L1537	NQL914K -470X	OPEN	OPEN	OPEN
L1541		OPEN	OPEN	OPEN
L1542		OPEN	OPEN	OPEN
L1543		OPEN	OPEN	OPEN
L1544		OPEN	OPEN	OPEN
L1545		OPEN	OPEN	OPEN
L1546		OPEN	OPEN	OPEN
L1547		OPEN	OPEN	OPEN
L1548		OPEN	OPEN	OPEN
L1549		OPEN	OPEN	OPEN
IC1503	S-80828 CLNB-W	OPEN	OPEN	OPEN
IC1531	OR43304 BMQC	OPEN	OPEN	OPEN
IC1532	OPA354 AIDBV-X	OPEN	OPEN	OPEN
IC1533	TC7S04FU -X	OPEN	OPEN	OPEN
IC1534	TC7WHU 04FU-X	OPEN	OPEN	OPEN
D1501		OPEN	OPEN	OPEN
D1531		OPEN	OPEN	OPEN
C1510		OPEN	OPEN	OPEN
C1531		OPEN	OPEN	OPEN
C1532		OPEN	OPEN	OPEN
C1533		OPEN	OPEN	OPEN
C1534		OPEN	OPEN	OPEN
C1535		OPEN	OPEN	OPEN
C1536		OPEN	OPEN	OPEN
C1537		OPEN	OPEN	OPEN
C1538		OPEN	OPEN	OPEN
C1539		OPEN	OPEN	OPEN
C1540		OPEN	OPEN	OPEN
C1541		OPEN	OPEN	OPEN
C1542		OPEN	OPEN	OPEN
C1543		OPEN	OPEN	OPEN
C1544		OPEN	OPEN	OPEN
C1545		OPEN	OPEN	OPEN
C1546		OPEN	OPEN	OPEN
C1547		OPEN	OPEN	OPEN
C1548		OPEN	OPEN	OPEN
C1549		OPEN	OPEN	OPEN
C1550		OPEN	OPEN	OPEN
C1551		OPEN	OPEN	OPEN
C1552		OPEN	OPEN	OPEN
C1553		OPEN	OPEN	OPEN
C1555		OPEN	OPEN	OPEN
C1556		OPEN	OPEN	OPEN
C1557		OPEN	OPEN	OPEN
C1558		OPEN	OPEN	OPEN
C1559		OPEN	OPEN	OPEN
C1560		OPEN	OPEN	OPEN
C1561		OPEN	OPEN	OPEN
C1562		OPEN	OPEN	OPEN
C1563		OPEN	OPEN	OPEN
C1564		OPEN	OPEN	OPEN
C1565		OPEN	OPEN	OPEN
C1566		OPEN	OPEN	OPEN
C1567		OPEN	OPEN	OPEN
C1569		OPEN	OPEN	OPEN
C1570		OPEN	OPEN	OPEN
C1571		OPEN	OPEN	OPEN
C1572		OPEN	OPEN	OPEN


SHEET 17
YMIN
BYMIN
RYMIN
BS_9V
AGND
- NOTE -
0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
*1 : 2SC3837K/NP/-X
*2 : 2SA1022/BC/-X



DIGITAL SIGNAL PWB ASS'Y (2/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]

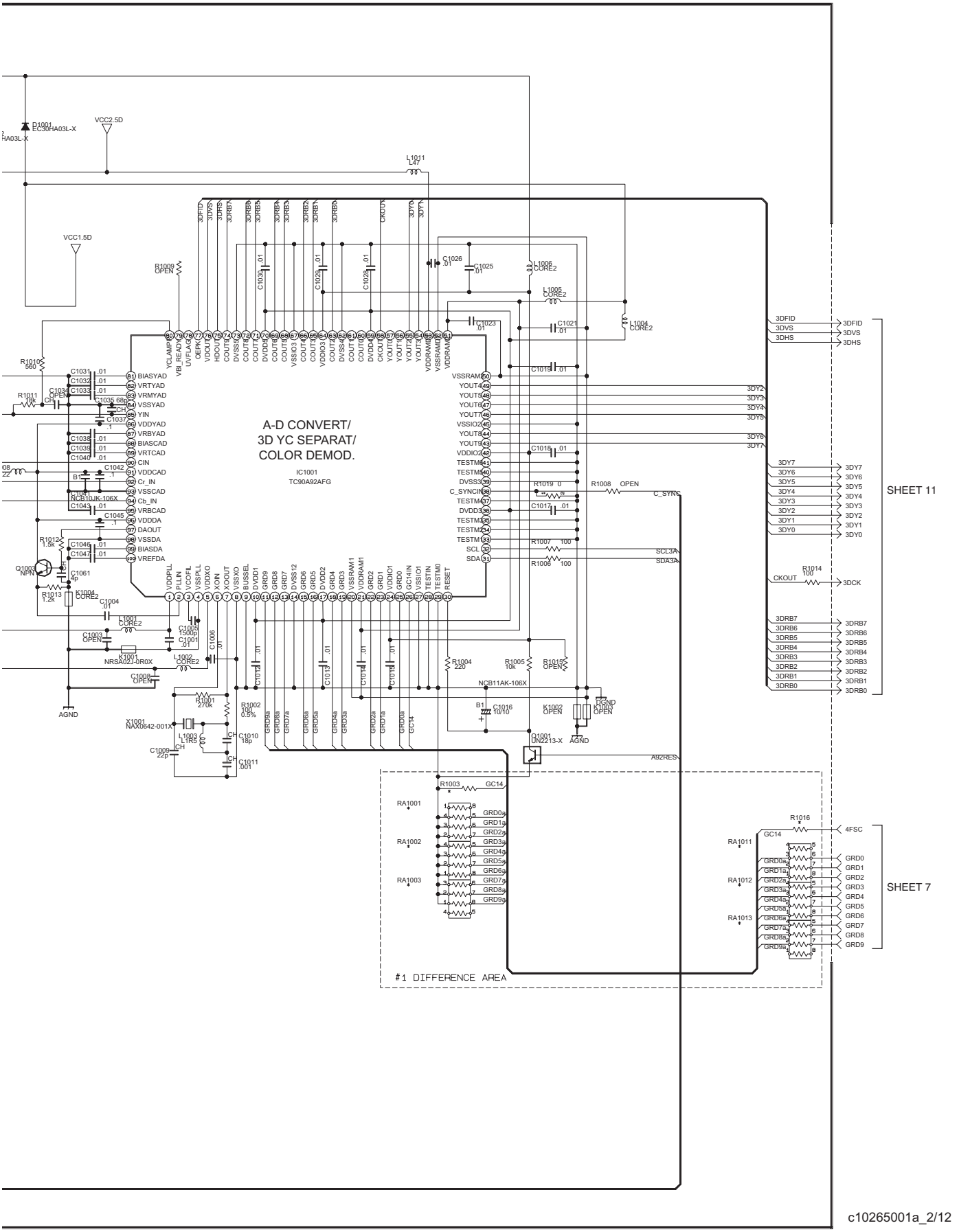
c10265001a_1/12



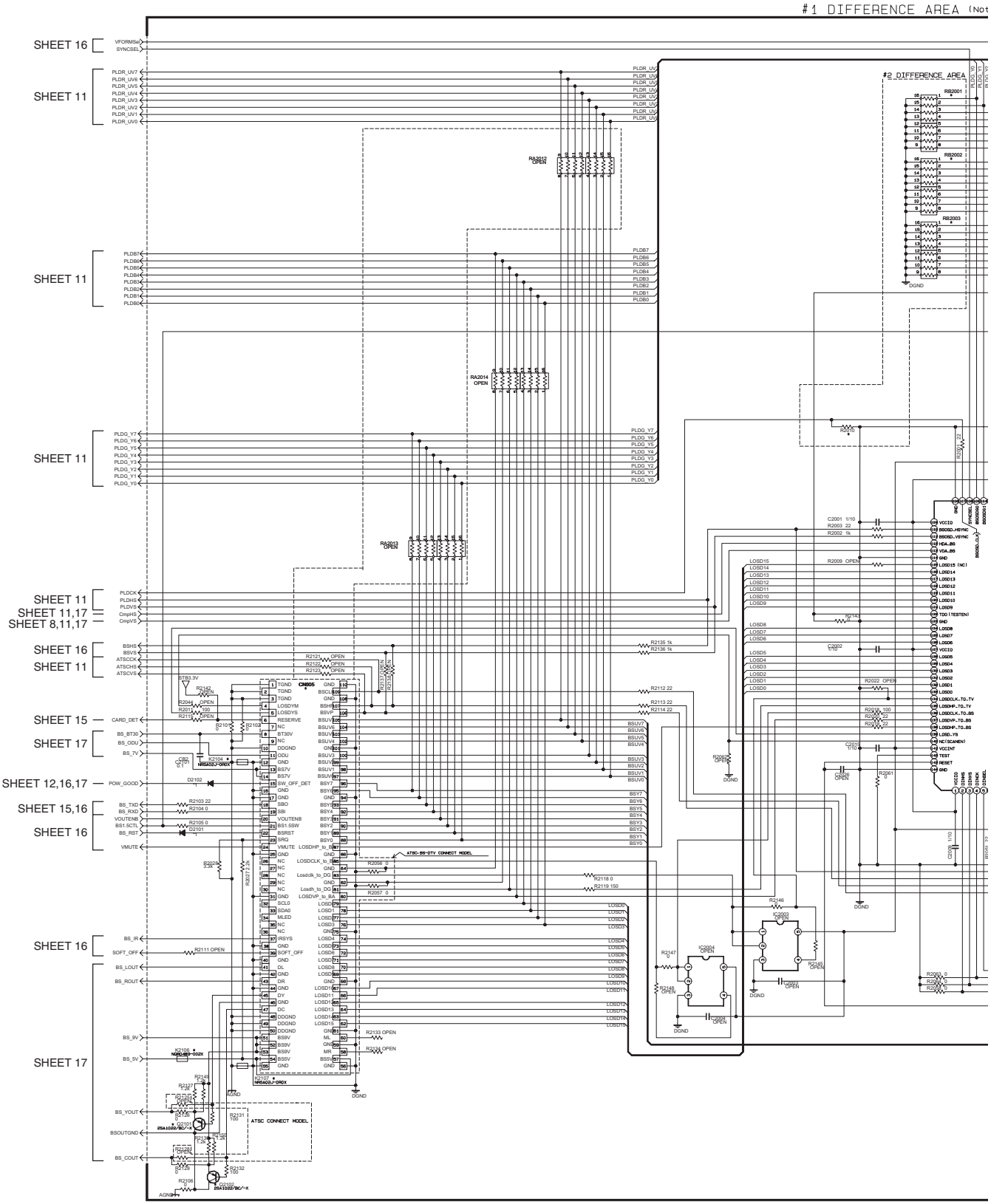
#1 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
RA1001	OPEN	NRZ0059 -103W	NRZ0059 -103W	NRZ0059 -103W
RA1002	OPEN	NRZ0059 -103W	NRZ0059 -103W	NRZ0059 -103W
RA1003	OPEN	NRZ0059 -103W	NRZ0059 -103W	NRZ0059 -103W
R1003	OPEN	10k	10k	10k
RA1011	NRZ0059 -103W	OPEN	OPEN	OPEN
RA1012	NRZ0059 -103W	OPEN	OPEN	OPEN
RA1013	NRZ0059 -103W	OPEN	OPEN	OPEN
R1016	22	OPEN	OPEN	OPEN
R1017	OPEN	100	100	100
R1018	OPEN	3.3k	3.3k	3.3k
Q1004	OPEN	PNP	PNP	PNP

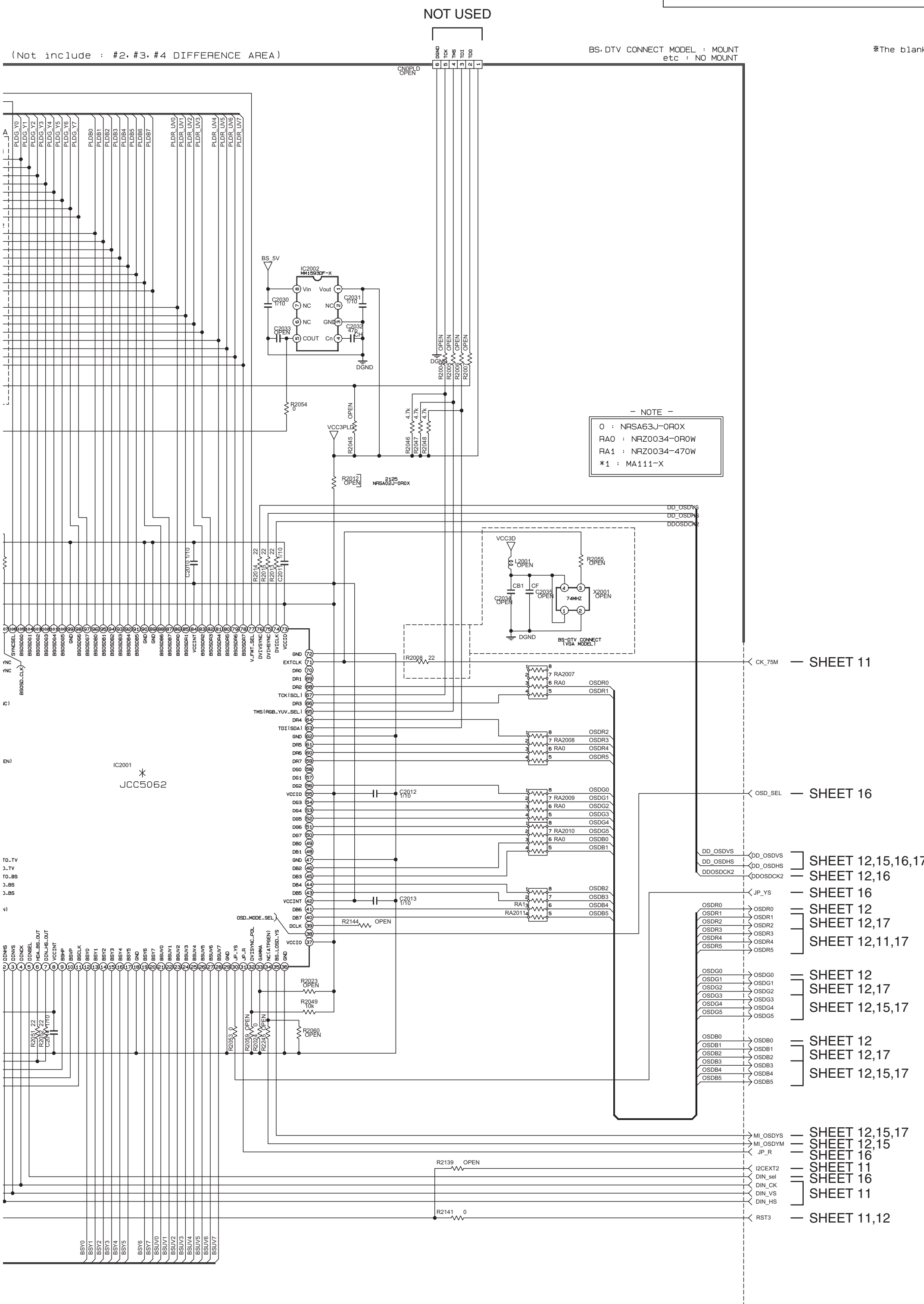
DIGITAL SIGNAL PWB ASS'Y (3/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]



c10265001a_2/12


#1 DIFFERENCE AREA
#2 DIFFERENCE AREA
SHEET 16
SHEET 11
SHEET 11
SHEET 11
SHEET 11
SHEET 11,17
SHEET 8,11,17
SHEET 16
SHEET 11
SHEET 15
SHEET 17
SHEET 12,16,17
SHEET 15,16
SHEET 16
SHEET 16
SHEET 17
ATSC CONNECT MODEL
ATSC-BS-DTV CONNECT MODEL
CN805
DGND
AGND

All parts in this circuit diagram are not used.



DIGITAL SIGNAL PWB ASS'Y (4/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]

※The blank part of a difference list : Refer to circuit block.

#1 DIFFERENCE LIST
(BS, DTV CONNECT MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R2101		OPEN	OPEN	OPEN
R2102		OPEN	OPEN	OPEN
R2103		OPEN	OPEN	OPEN
R2104		OPEN	OPEN	OPEN
R2105		OPEN	OPEN	OPEN
R2112		OPEN	OPEN	OPEN
R2113		OPEN	OPEN	OPEN
R2114		OPEN	OPEN	OPEN
R2118		OPEN	OPEN	OPEN
R2119		OPEN	OPEN	OPEN
R2126		OPEN	OPEN	OPEN
R2127		OPEN	OPEN	OPEN
R2129		OPEN	OPEN	OPEN
R2130		OPEN	OPEN	OPEN
R2131		OPEN	OPEN	OPEN
R2132		OPEN	OPEN	OPEN
R2135		OPEN	OPEN	OPEN
R2136		OPEN	OPEN	OPEN
R2141		OPEN	OPEN	OPEN
Q2101	2SA1022 /BC/-X	OPEN	OPEN	OPEN
Q2102	2SA1022 /BC/-X	OPEN	OPEN	OPEN
K2104	NRSA02J -0R0X	OPEN	OPEN	OPEN
K2106	NQR0489 -002X	OPEN	OPEN	OPEN
K2107	NRSA02J -0R0X	OPEN	OPEN	OPEN
D2101		OPEN	OPEN	OPEN
D2102		OPEN	OPEN	OPEN
C2101		OPEN	OPEN	OPEN
RA2007		OPEN	OPEN	OPEN
RA2008		OPEN	OPEN	OPEN
RA2009		OPEN	OPEN	OPEN
RA2010		OPEN	OPEN	OPEN
RA2011		OPEN	OPEN	OPEN
R2001		OPEN	OPEN	OPEN
R2002		OPEN	OPEN	OPEN
R2003		OPEN	OPEN	OPEN
R2011		OPEN	OPEN	OPEN
R2012	NRSA02J -0R0X	OPEN	OPEN	OPEN
R2013		OPEN	OPEN	OPEN
R2014		OPEN	OPEN	OPEN
R2015		OPEN	OPEN	OPEN
R2018		OPEN	OPEN	OPEN
R2019		OPEN	OPEN	OPEN
R2020		OPEN	OPEN	OPEN
R2024		OPEN	OPEN	OPEN
R2027		OPEN	OPEN	OPEN
R2028		OPEN	OPEN	OPEN
R2045		OPEN	OPEN	OPEN
R2046		OPEN	OPEN	OPEN
R2047		OPEN	OPEN	OPEN
R2048		OPEN	OPEN	OPEN
R2049		OPEN	OPEN	OPEN
R2051		OPEN	OPEN	OPEN
R2052		OPEN	OPEN	OPEN
IC2001	JCC5062	OPEN	OPEN	OPEN
C2001		OPEN	OPEN	OPEN
C2002		OPEN	OPEN	OPEN
C2009		OPEN	OPEN	OPEN
C2010		OPEN	OPEN	OPEN
C2011		OPEN	OPEN	OPEN
C2012		OPEN	OPEN	OPEN
C2013		OPEN	OPEN	OPEN
C2014		OPEN	OPEN	OPEN
C2015		OPEN	OPEN	OPEN
IC2002	MM1593 DF-X	OPEN	OPEN	OPEN
R2054		OPEN	OPEN	OPEN
C2030		OPEN	OPEN	OPEN
C2031		OPEN	OPEN	OPEN
C2032		OPEN	OPEN	OPEN
R2143		OPEN	OPEN	OPEN
R2146		OPEN	OPEN	OPEN
R2053		OPEN	OPEN	OPEN
R2058		OPEN	OPEN	OPEN
R2061		OPEN	OPEN	OPEN
R2063		OPEN	OPEN	OPEN
R2064		OPEN	OPEN	OPEN
R2147		OPEN	OPEN	OPEN
R2149		OPEN	OPEN	OPEN
R2150		OPEN	OPEN	OPEN
R2008		OPEN	OPEN	OPEN
CN005	QGB0603L1 -B0	OPEN	OPEN	OPEN
R2056		OPEN	OPEN	OPEN
R2057		OPEN	OPEN	OPEN
R2106		OPEN	OPEN	OPEN

#2 DIFFERENCE LIST
(JPN, US MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
RB2001	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
RB2002	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
RB2003	OPEN	OPEN	NRZ0080 -0R0X	NRZ0080 -0R0X
R2010	OPEN	OPEN	0	0

DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (5/11) SHEET 11

#1 DIFFERENCE LIST
(US MODEL/ etc)

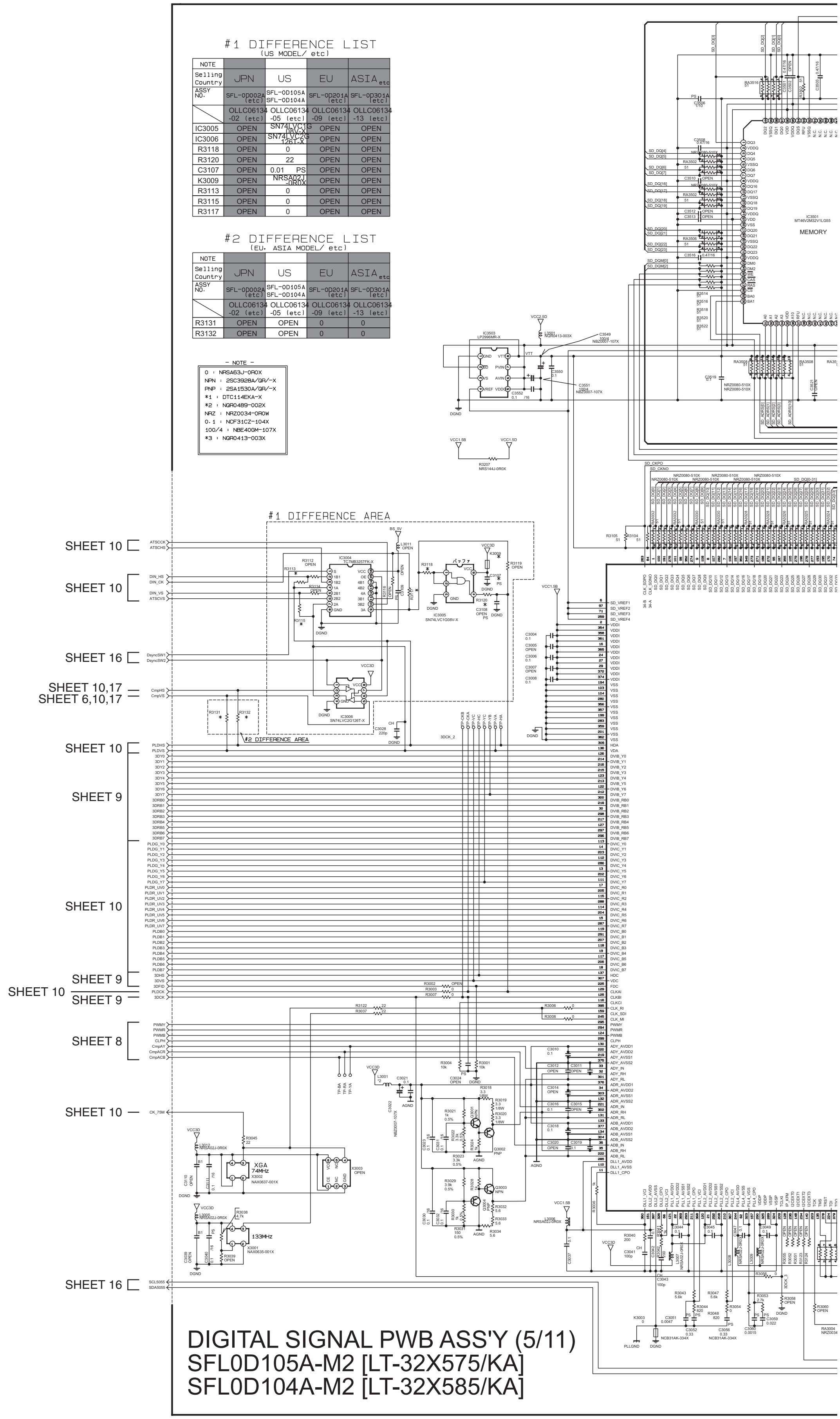
NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
IC3005	OPEN	SN74LVC1G 08V-X	OPEN	OPEN
IC3006	OPEN	SN74LVC2G 126T-X	OPEN	OPEN
R3118	OPEN	0	OPEN	OPEN
R3120	OPEN	22	OPEN	OPEN
C3107	OPEN	0.01 PS	OPEN	OPEN
K3009	OPEN	NRSA02J -0R0X	OPEN	OPEN
R3113	OPEN	0	OPEN	OPEN
R3115	OPEN	0	OPEN	OPEN
R3117	OPEN	0	OPEN	OPEN

#2 DIFFERENCE LIST
(EU, ASIA MODEL/ etc)

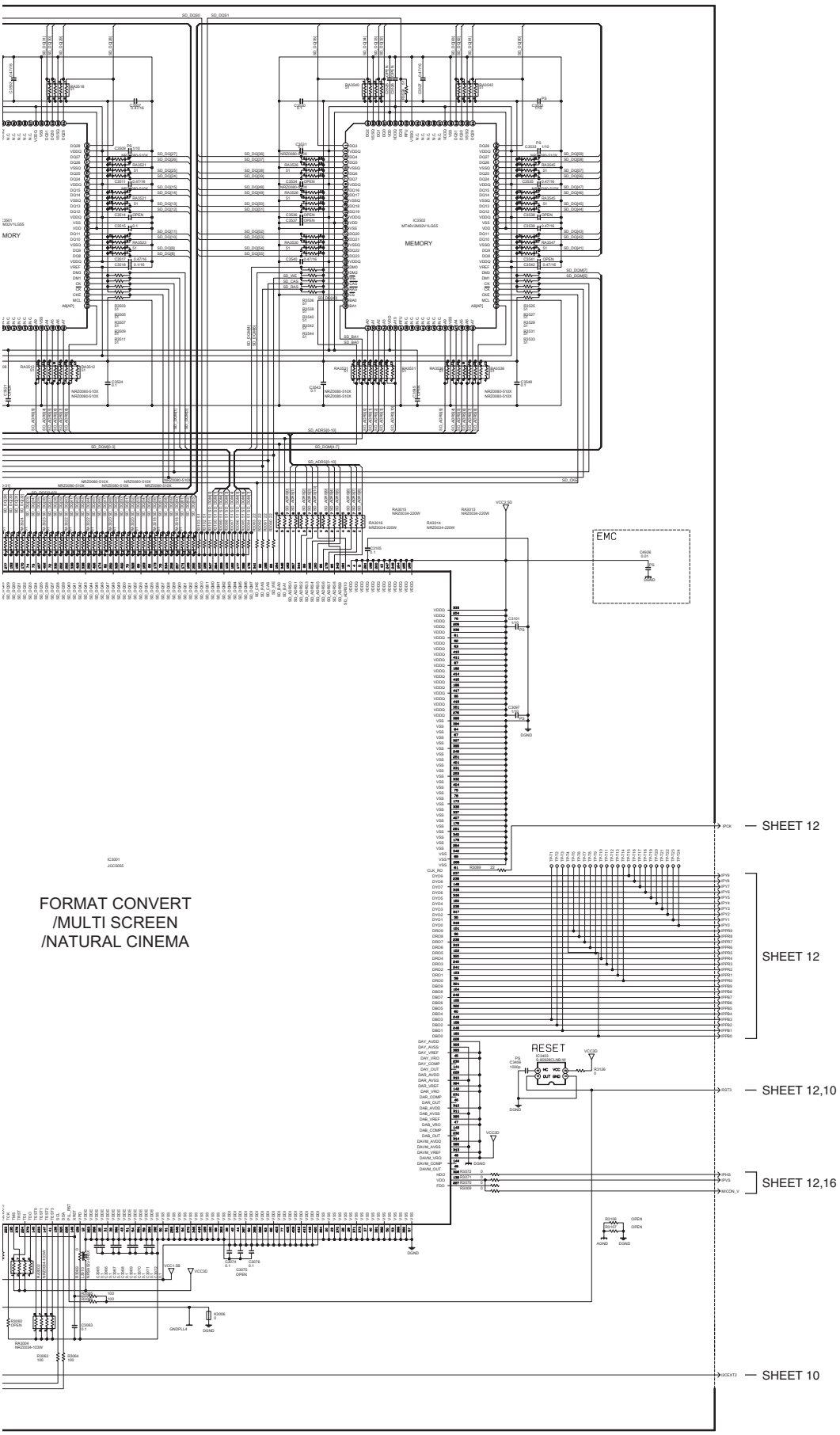
NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R3131	OPEN	OPEN	0	0
R3132	OPEN	OPEN	0	0

- NOTE -

0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
*1 : DTC114EKA-X
*2 : NQR0489-002X
NRZ : NRZ0034-0R0W
0.1 : NCF31CZ-104X
100/4 : NBE40GM-107X
*3 : NQR0413-003X

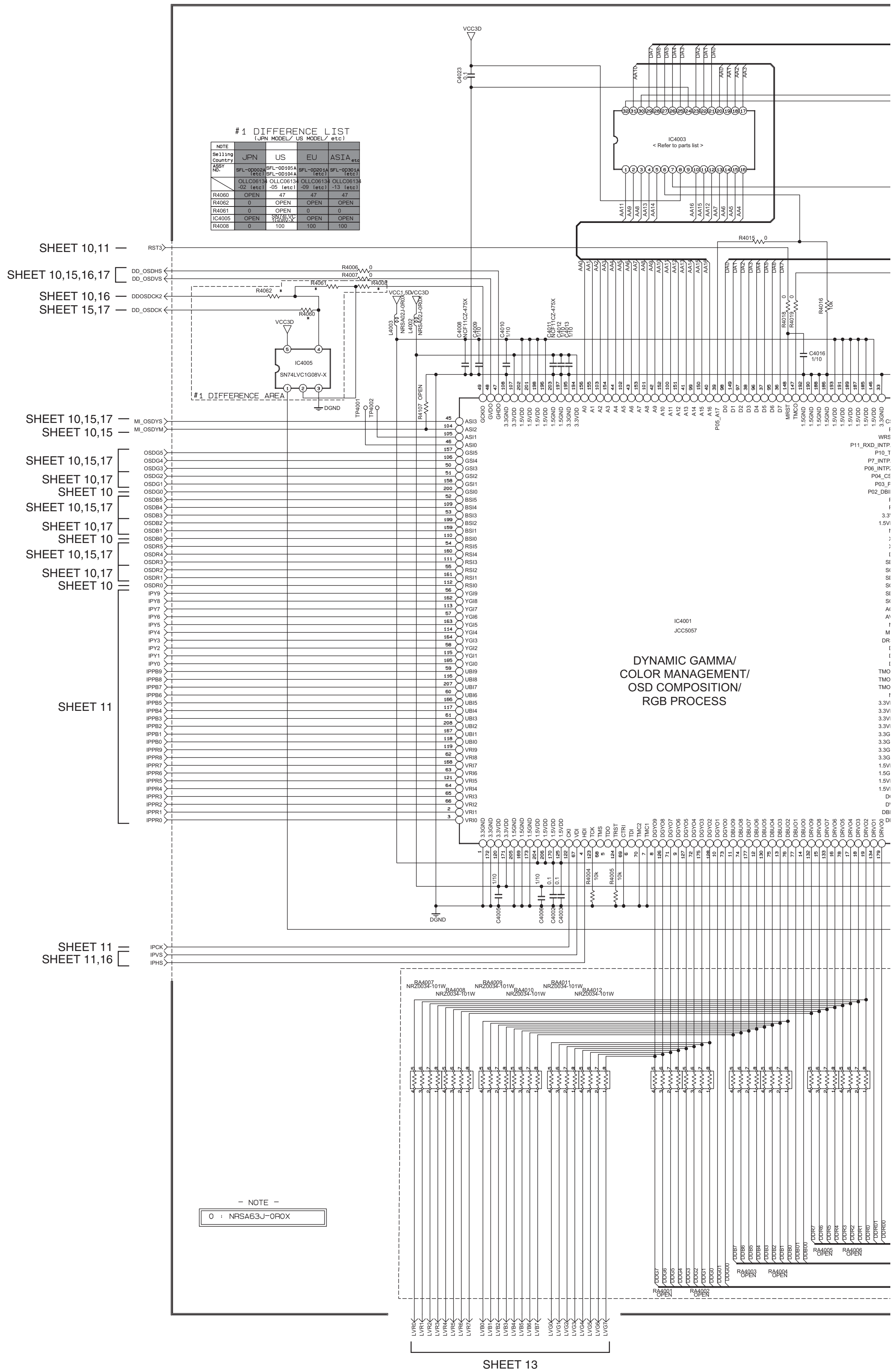


DIGITAL SIGNAL PWB ASS'Y (5/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]



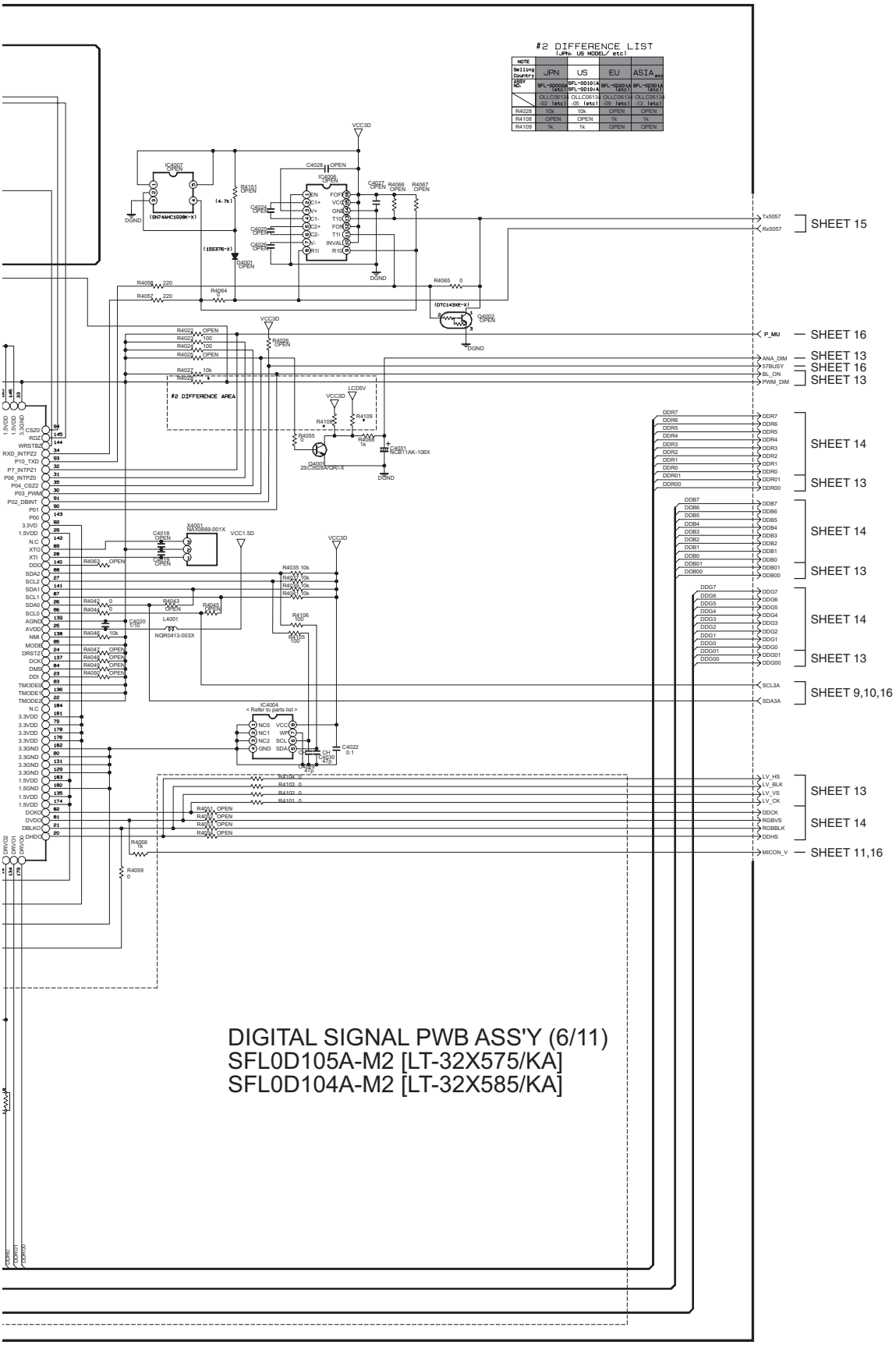
c10265001a_3/12

DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (6/11) SHEET 12



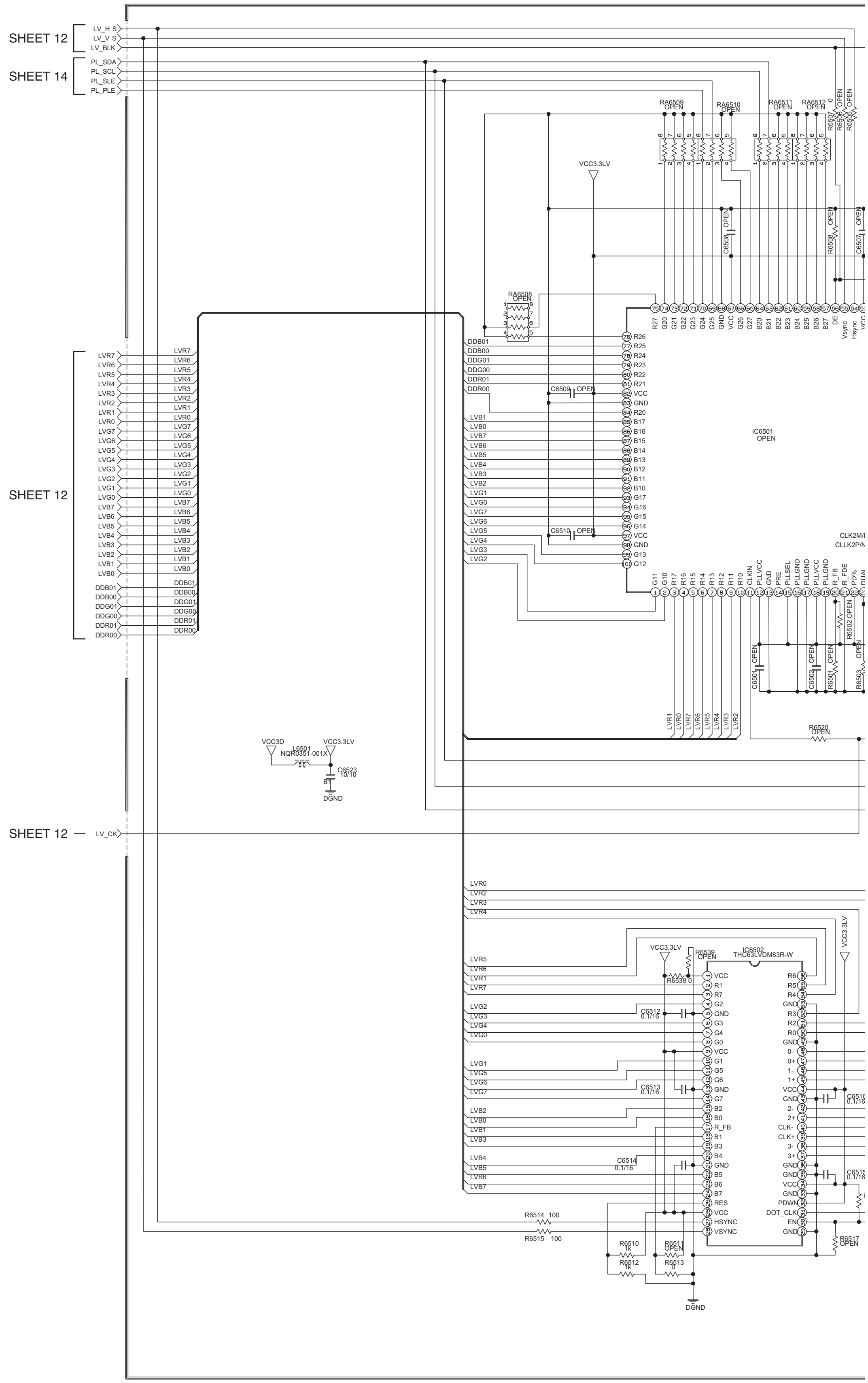
#1 DIFFERENCE LIST
(JPN MODEL/ US MODEL/ etc)

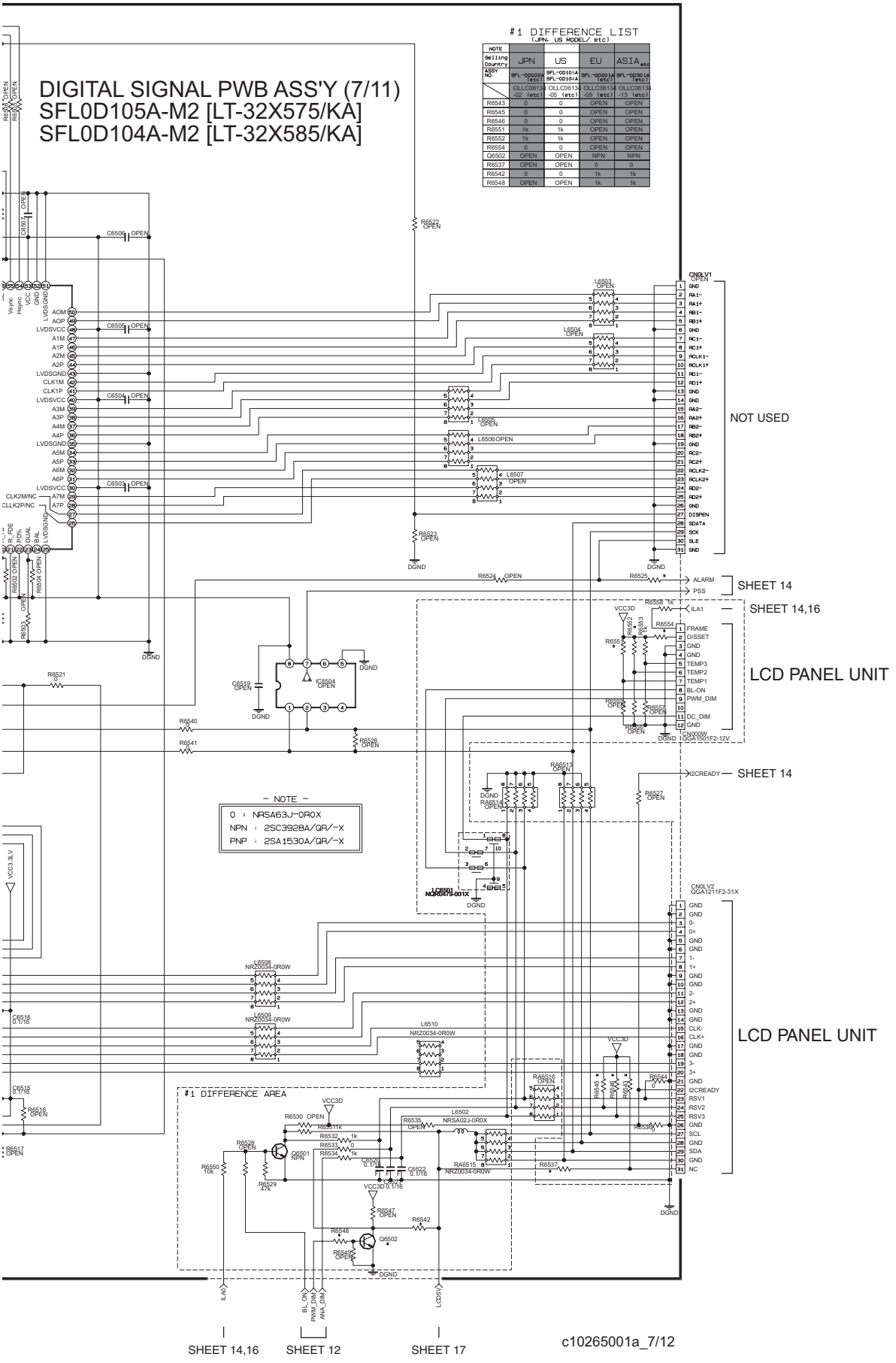
NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R4060	OPEN	47	47	47
R4062	0	OPEN	OPEN	OPEN
R4061	0	OPEN	0	0
IC4005	OPEN	SN74LVC 1G08V-X	OPEN	OPEN
R4008	0	100	100	100



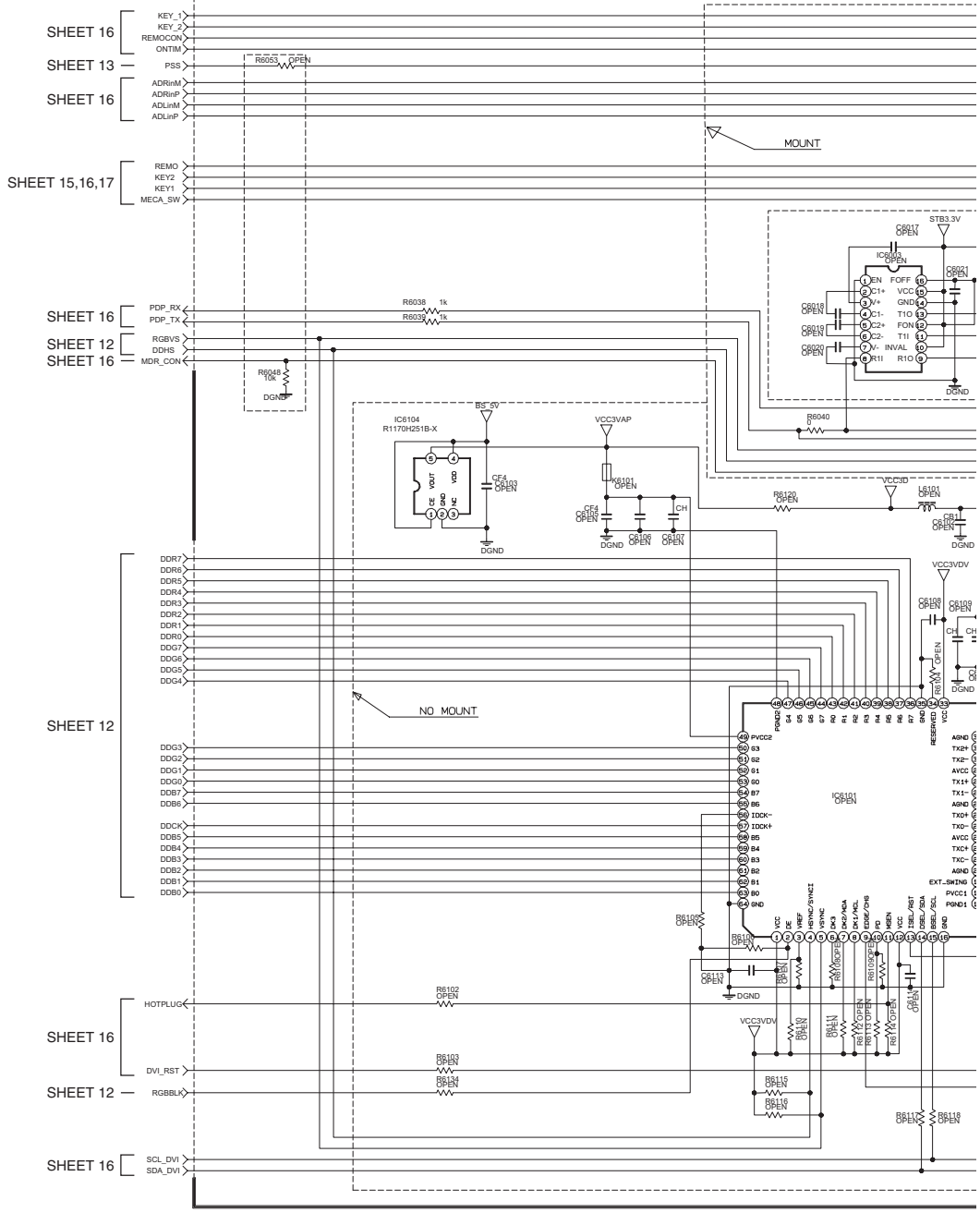
c10265001a_4/12

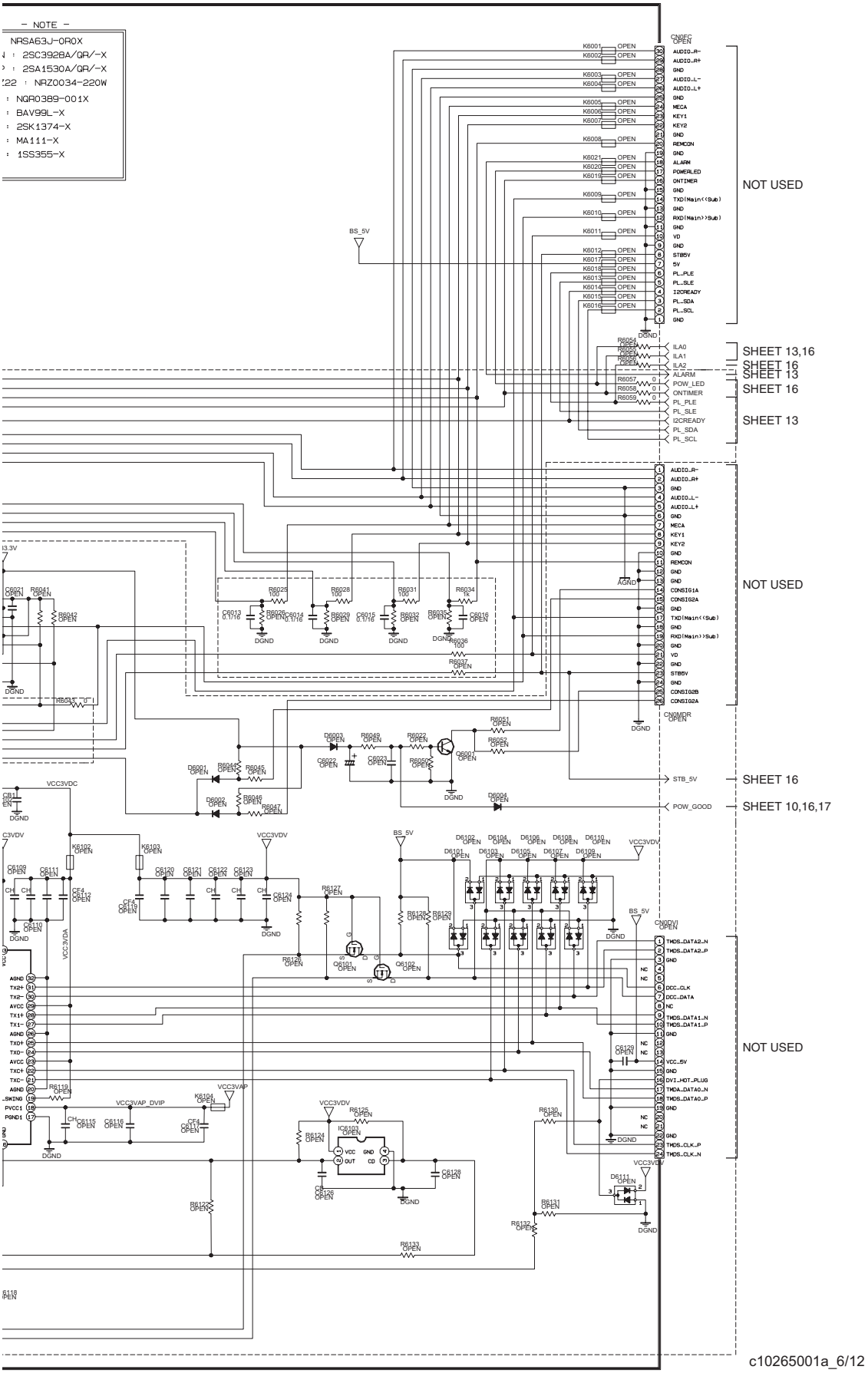
DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (7/11) SHEET 13

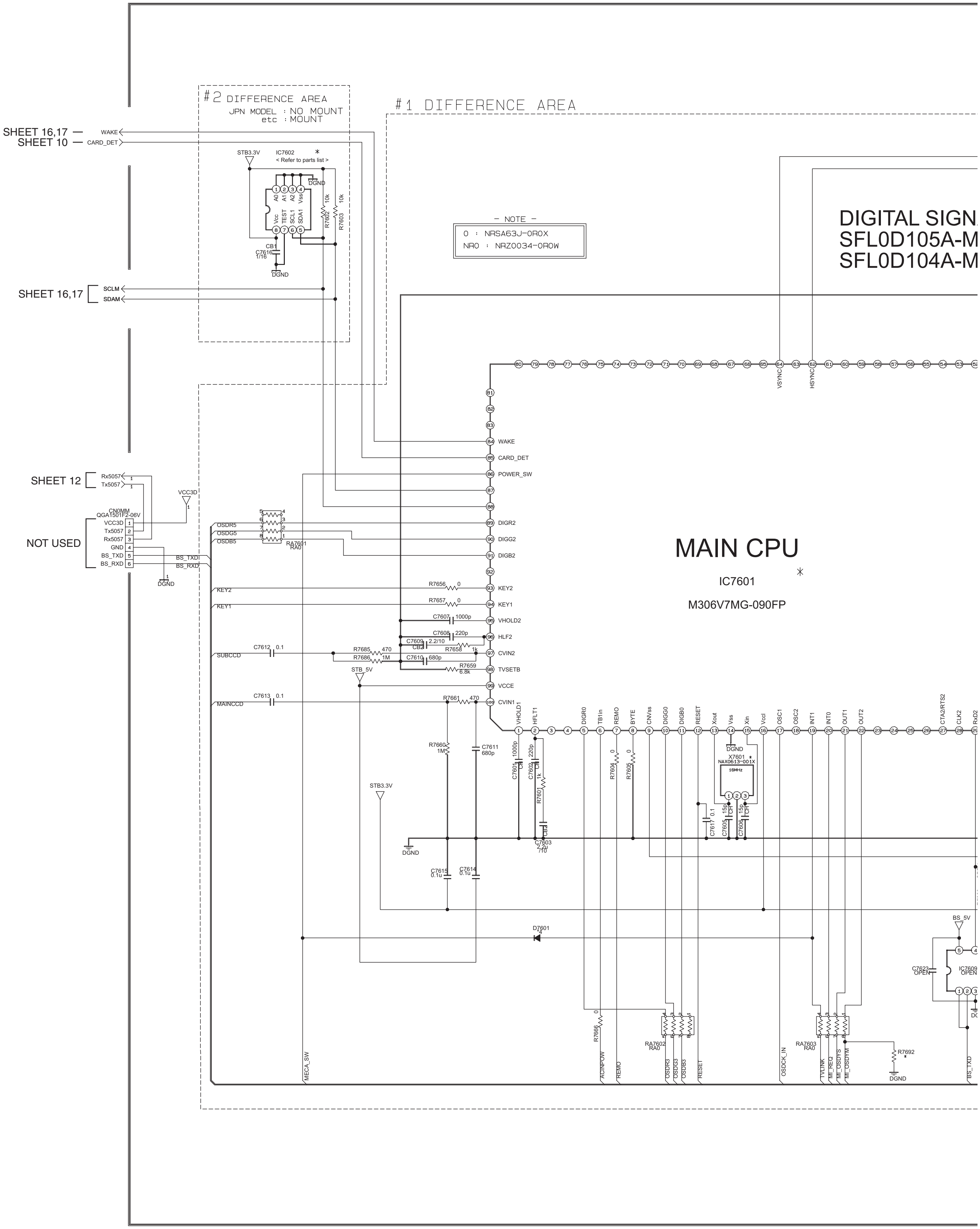



DIGITAL SIGNAL PWB ASS'Y (7/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]
#1 DIFFERENCE LIST
(JPN, US MODEL/ etc)
NOTE
Selling Country
ASSY NO.
JPN
US
EU
ASIA etc
SFL-0D002A [etc]
SFL-0D105A SFL-0D104A
SFL-0D201A [etc]
SFL-0D301A [etc]
OLLC06134 -02 [etc]
OLLC06134 -05 [etc]
OLLC06134 -09 [etc]
OLLC06134 -13 [etc]
R6543 0 0 OPEN OPEN
R6545 0 0 OPEN OPEN
R6546 0 0 OPEN OPEN
R6551 1k 1k OPEN OPEN
R6552 1k 1k OPEN OPEN
R6554 0 0 OPEN OPEN
Q6502 OPEN OPEN NPN NPN
R6537 OPEN OPEN 0 0
R6542 0 0 1k 1k
R6548 OPEN OPEN 1k 1k
CN0LV1 OPEN
CN0LV2 QGA1211F2-31X
CN000W QGA1501F2-12V
NOT USED
LCD PANEL UNIT
LCD PANEL UNIT
ALARM
PSS
I2CREADY
ILA1
SHEET 14
SHEET 14,16
SHEET 14
SHEET 14,16
SHEET 12
SHEET 17
- NOTE -
0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
#1 DIFFERENCE AREA
c10265001a_7/12

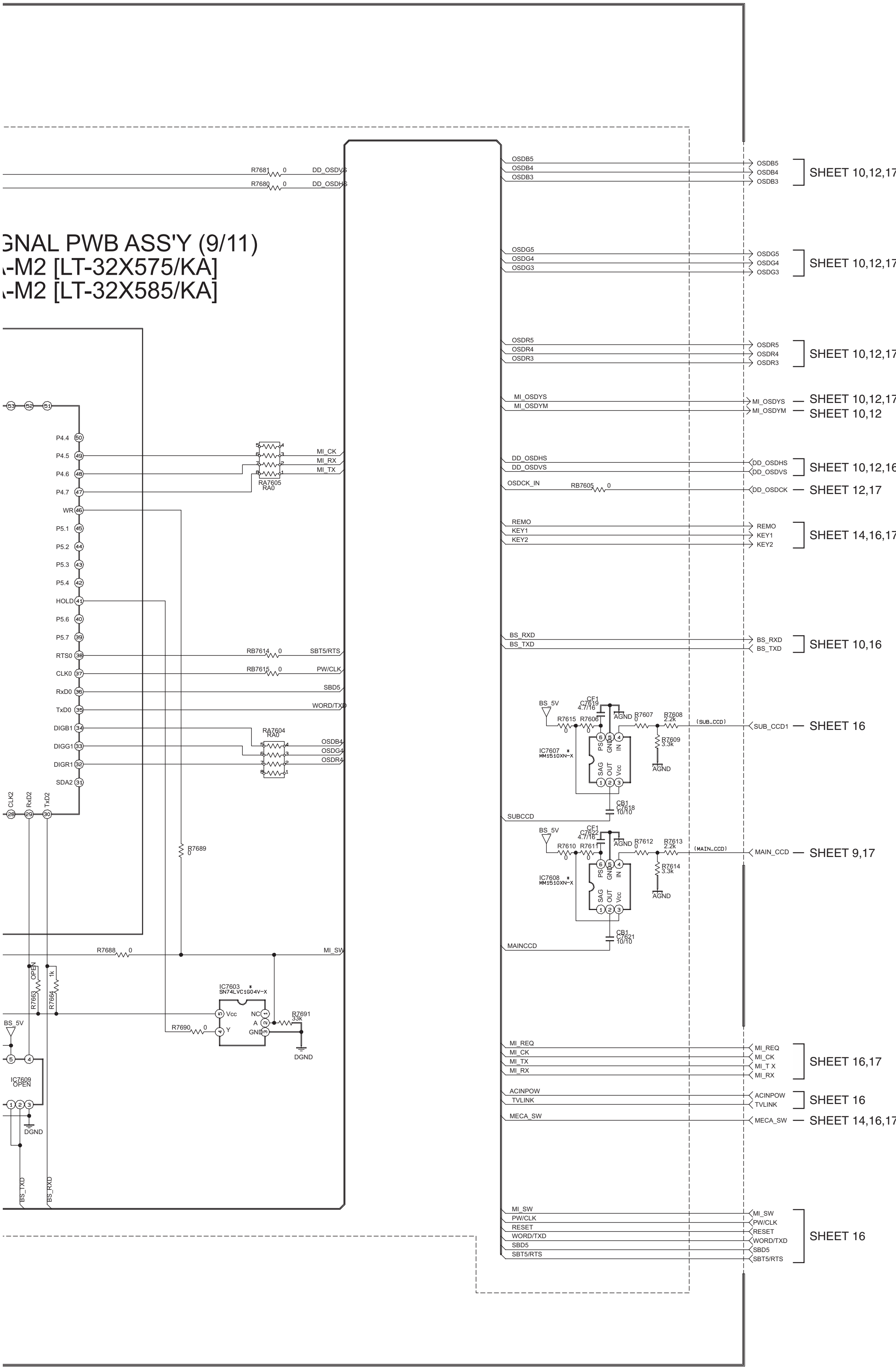
DIGITAL SIGNAL PWB ASS'Y (8/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]




NOT USED
SHEET 13,16
SHEET 16
SHEET 13
SHEET 16
SHEET 13
NOT USED
NOT USED
SHEET 16
SHEET 10,16,17
NOT USED
c10265001a_6/12


#2 DIFFERENCE AREA
JPN MODEL : NO MOUNT
etc : MOUNT
#1 DIFFERENCE AREA
SHEET 16,17
SHEET 10
WAKE
CARD_DET
STB3.3V
IC7602
< Refer to parts list >
DGND
- NOTE -
O : NRSA63J-0R0X
NR0 : NRZ0034-0R0W
DIGITAL SIGN
SFL0D105A-M
SFL0D104A-M
SHEET 16,17
SCLM
SDAM
SHEET 12
Rx5057
Tx5057
VCC3D
CN0MM
QGA1501F2-06V
NOT USED
VCC3D
GND
BS_TXD
BS_RXD
OSDR5
OSDG5
OSDB5
RA7601
KEY2
KEY1
SUBCCD
MAINCCD
MAIN CPU
IC7601
M306V7MG-090FP
WAKE
CARD_DET
POWER_SW
DIGR2
DIGG2
DIGB2
KEY2
KEY1
VHOLD2
HLF2
CVIN2
TVSETB
VCCE
CVIN1
VSYNC
HSYNC
STB_5V
STB3.3V
DGND
D7601
X7601
NAX0613-001X
16MHz
BS_5V
IC7609
OPEN
C7622
OPEN
RA7602
RA7603
R7666
R7692
MECA_SW
ACINPOW
REMO
OSDR3
OSDG3
OSDB3
RESET
OSDCK_IN
TVLINK
M_REQ
M_OSDYS
M_OSDYM
BS_TXD

GNAL PWB ASS'Y (9/11)
-M2 [LT-32X575/KA]
-M2 [LT-32X585/KA]



※The blank part of a difference list
: Refer to circuit block.

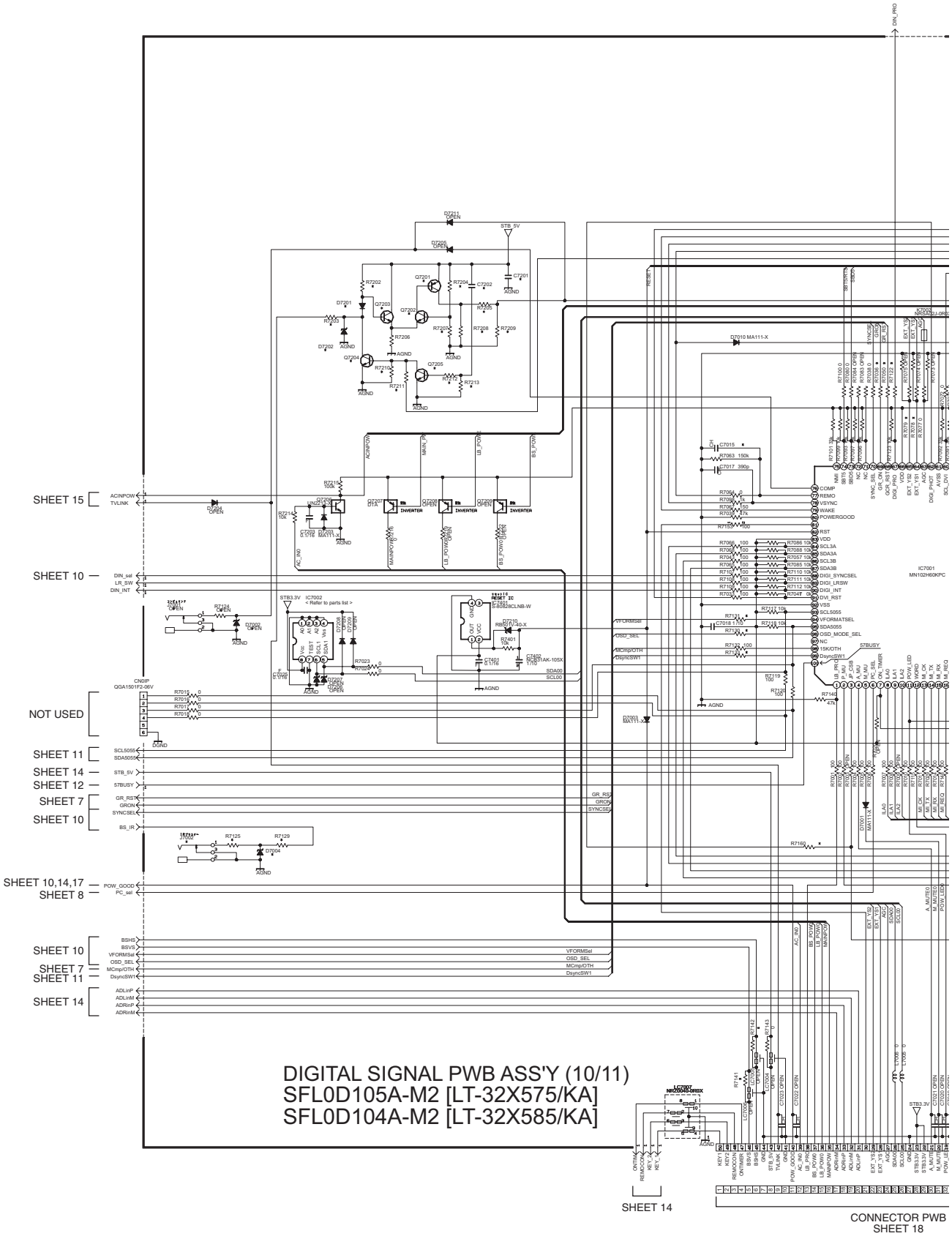
#1 DIFFERENCE LIST
(US MODEL/ etc)

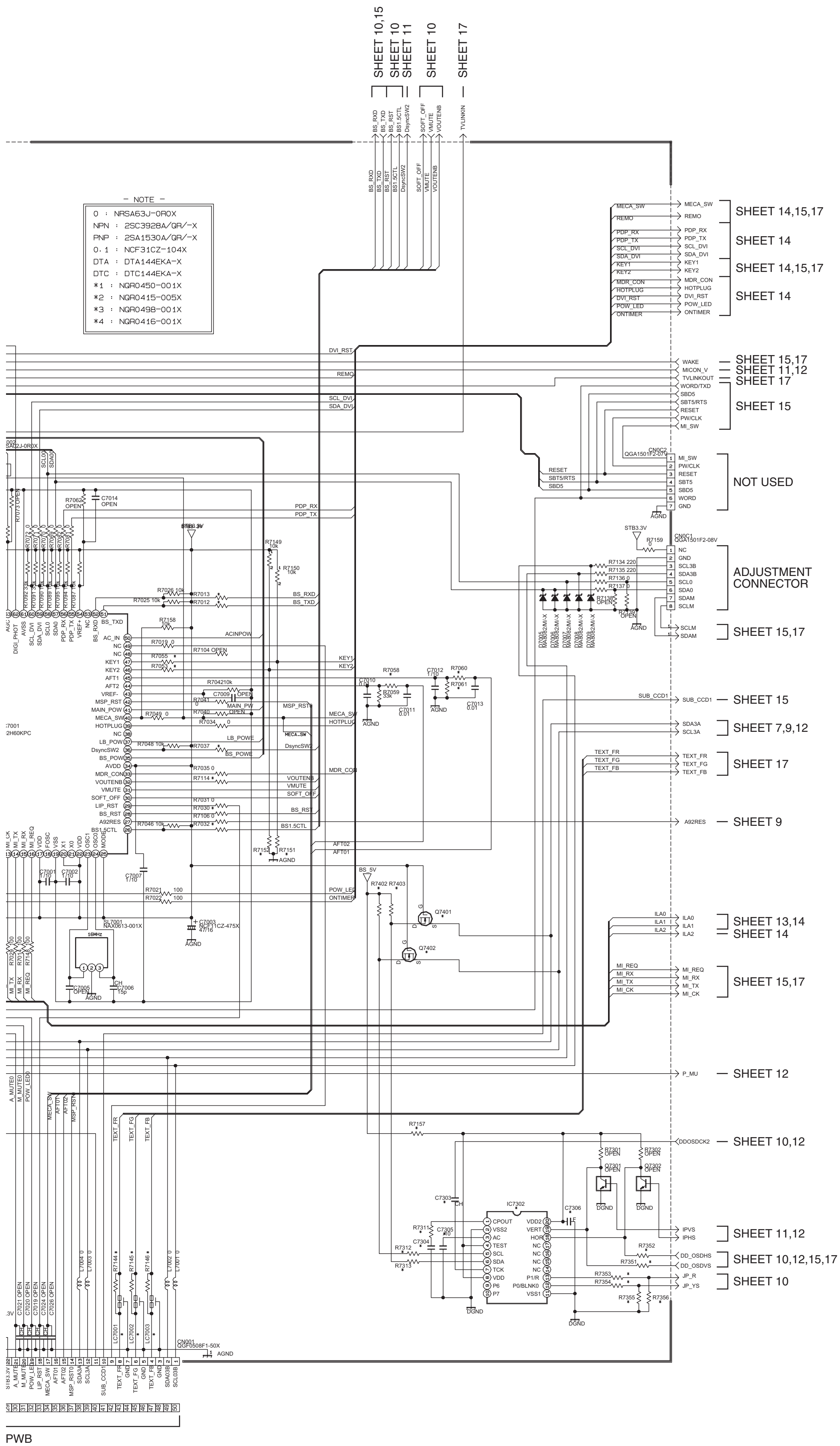
NOIE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
X7601	OPEN	NAX0613 -001X	OPEN	OPEN
RB7605	OPEN		OPEN	OPEN
RB7614	OPEN		OPEN	OPEN
RB7615	OPEN		OPEN	OPEN
RA7601	OPEN		OPEN	OPEN
RA7602	OPEN		OPEN	OPEN
RA7603	OPEN		OPEN	OPEN
RA7604	OPEN		OPEN	OPEN
RA7605	OPEN		OPEN	OPEN
R7601	OPEN		OPEN	OPEN
R7604	OPEN		OPEN	OPEN
R7605	OPEN		OPEN	OPEN
R7606	OPEN		OPEN	OPEN
R7607	OPEN		OPEN	OPEN
R7608	OPEN		OPEN	OPEN
R7609	OPEN		OPEN	OPEN
R7610	OPEN		OPEN	OPEN
R7611	OPEN		OPEN	OPEN
R7612	OPEN		OPEN	OPEN
R7613	OPEN		OPEN	OPEN
R7614	OPEN		OPEN	OPEN
R7615	OPEN		OPEN	OPEN
R7656	OPEN		OPEN	OPEN
R7657	OPEN		OPEN	OPEN
R7658	OPEN		OPEN	OPEN
R7659	OPEN		OPEN	OPEN
R7660	OPEN		OPEN	OPEN
R7661	OPEN		OPEN	OPEN
R7664	OPEN		OPEN	OPEN
R7666	OPEN		OPEN	OPEN
R7680	OPEN		OPEN	OPEN
R7681	OPEN		OPEN	OPEN
R7685	OPEN		OPEN	OPEN
R7686	OPEN		OPEN	OPEN
R7688	OPEN		OPEN	OPEN
R7689	OPEN		OPEN	OPEN
R7690	OPEN		OPEN	OPEN
R7691	OPEN		OPEN	OPEN
IC7601	OPEN	M306V7 EGFP	OPEN	OPEN
IC7603	OPEN	SN74LVC1G 04V-X	OPEN	OPEN
IC7607	OPEN	MM1510 XN-X	OPEN	OPEN
IC7608	OPEN	MM1510 XN-X	OPEN	OPEN
D7601	OPEN		OPEN	OPEN
C7601	OPEN		OPEN	OPEN
C7602	OPEN		OPEN	OPEN
C7603	OPEN		OPEN	OPEN
C7605	OPEN		OPEN	OPEN
C7606	OPEN		OPEN	OPEN
C7607	OPEN		OPEN	OPEN
C7608	OPEN		OPEN	OPEN
C7609	OPEN		OPEN	OPEN
C7610	OPEN		OPEN	OPEN
C7611	OPEN		OPEN	OPEN
C7612	OPEN		OPEN	OPEN
C7613	OPEN		OPEN	OPEN
C7614	OPEN		OPEN	OPEN
C7615	OPEN		OPEN	OPEN
C7617	OPEN		OPEN	OPEN
C7618	OPEN		OPEN	OPEN
C7619	OPEN		OPEN	OPEN
C7621	OPEN		OPEN	OPEN
C7622	OPEN		OPEN	OPEN
R7692	10k	OPEN	10k	10k

#2 DIFFERENCE LIST
(US MODEL/ EU・ASIA MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
IC7602	OPEN	24LC16B /SN-X	24LC32A-I /SN-X	24LC32A-I /SN-X
R7602	OPEN	10k	10k	10k
R7603	OPEN	10k	10k	10k
C7616	OPEN	1/16 CB1	1/16 CB1	1/16 CB1

c10265001a_5/12


SHEET 15
SHEET 10
NOT USED
SHEET 11
SHEET 14
SHEET 12
SHEET 7
SHEET 10
SHEET 10,14,17
SHEET 8
SHEET 10
SHEET 7
SHEET 11
SHEET 14
SHEET 14
CONNECTOR PWB
SHEET 18
DIGITAL SIGNAL PWB ASS'Y (10/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]



#1 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R7030	0	OPEN	OPEN	OPEN
R7053	100	OPEN	OPEN	OPEN
R7055	100	OPEN	OPEN	OPEN
R7012	0	OPEN	OPEN	OPEN
R7013	0	OPEN	OPEN	OPEN
R7050	0	OPEN	OPEN	OPEN
R7036	0	OPEN	OPEN	OPEN
C7015	0.001	OPEN	OPEN	OPEN
J7002	QNS0001 -001	OPEN	OPEN	OPEN
R7125	0	OPEN	OPEN	OPEN
R7129	47	OPEN	OPEN	OPEN
R7131	0	OPEN	OPEN	OPEN
D7004	MA8082 /M/-X	OPEN	OPEN	OPEN
Q7401	2SK1374-X	OPEN	OPEN	OPEN
Q7402	2SK1374-X	OPEN	OPEN	OPEN
IC7302	M35047 -069FP-X	OPEN	OPEN	OPEN
R7402	10k	OPEN	OPEN	OPEN
R7403	10k	OPEN	OPEN	OPEN
R7311	1k	OPEN	OPEN	OPEN
R7312	100	OPEN	OPEN	OPEN
R7313	100	OPEN	OPEN	OPEN
C7303	1000p CH	OPEN	OPEN	OPEN
C7304	0.01	OPEN	OPEN	OPEN
C7305	1/10	OPEN	OPEN	OPEN
C7306	0.1 F	OPEN	OPEN	OPEN
R7351	22	OPEN	OPEN	OPEN
R7352	22	OPEN	OPEN	OPEN
R7353	6.8k	OPEN	OPEN	OPEN
R7354	6.8k	OPEN	OPEN	OPEN
R7355	12k	OPEN	OPEN	OPEN
R7356	12k	OPEN	OPEN	OPEN
R7157	0	OPEN	OPEN	OPEN
R7059	OPEN	33k	33k	33k

#2 DIFFERENCE LIST
(EU MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
Q7201	OPEN	OPEN	PNP	OPEN
Q7202	OPEN	OPEN	NPN	OPEN
Q7203	OPEN	OPEN	NPN	OPEN
Q7204	OPEN	OPEN	NPN	OPEN
Q7205	OPEN	OPEN	NPN	OPEN
D7201	OPEN	OPEN	MA111-X	OPEN
D7202	OPEN	OPEN	OPEN	OPEN
C7201	OPEN	OPEN	1/10	OPEN
C7202	OPEN	OPEN	0.1/16	OPEN
R7202	OPEN	OPEN	27k	OPEN
R7203	OPEN	OPEN	220	OPEN
R7204	OPEN	OPEN	10k	OPEN
R7205	OPEN	OPEN	1k	OPEN
R7206	OPEN	OPEN	10k	OPEN
R7207	OPEN	OPEN	10k	OPEN
R7208	OPEN	OPEN	1k	OPEN
R7209	OPEN	OPEN	1.5k	OPEN
R7210	OPEN	OPEN	10k	OPEN
R7211	OPEN	OPEN	10k	OPEN
R7212	OPEN	OPEN	47k	OPEN
R7213	OPEN	OPEN	1k	OPEN
R7078	OPEN	OPEN	0	OPEN
R7079	OPEN	OPEN	0	OPEN

#3 DIFFERENCE LIST
(US MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R7122	OPEN	0	OPEN	OPEN
R7058	1k	22k	1k	1k
R7160	OPEN	0	OPEN	OPEN

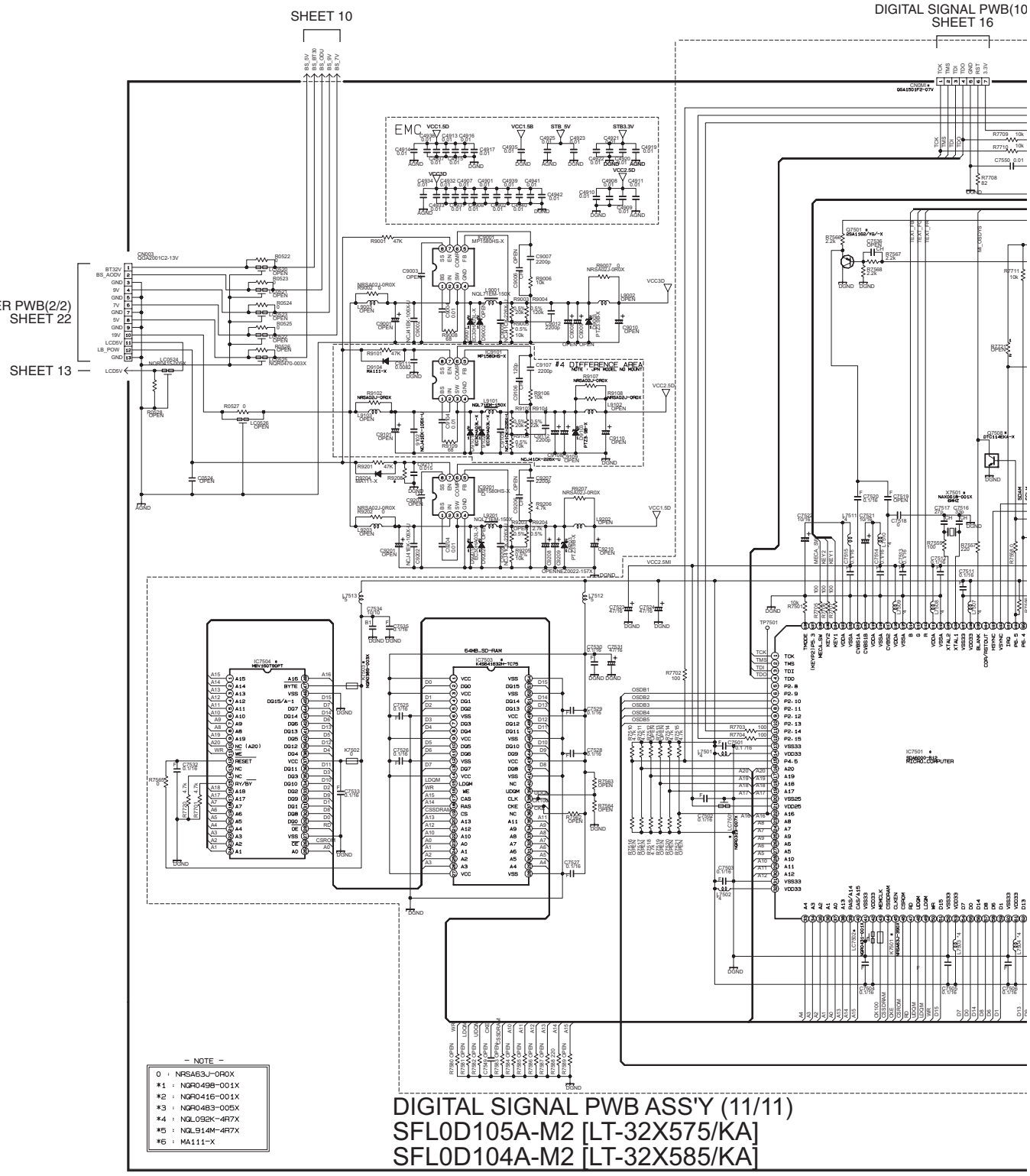
#4 DIFFERENCE LIST
(BS-DTV CONNECT MODEL/ etc)

NOTE	BS-DTV CONNECT	NO CONNECT	NO CONNECT	NO CONNECT
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R7141	0	OPEN	OPEN	OPEN
R7142	0	OPEN	OPEN	OPEN
R7130	0	OPEN	OPEN	OPEN
R7114	0	OPEN	OPEN	OPEN
R7032	0	OPEN	OPEN	OPEN

#5 DIFFERENCE LIST
(EU・ASIA MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R7151	OPEN	OPEN	27k	27k
R7152	OPEN	OPEN	27k	27k
R7060	33k	33k	47k	47k
R7061	150k	150k	100k	100k
R7037	0	0	OPEN	OPEN
R7133	0	0	OPEN	OPEN
LC7001	NQR0470 -003X	NQR0470 -003X	OPEN	OPEN
LC7002	NQR0470 -003X	NQR0470 -003X	OPEN	OPEN
LC7003	NQR0470 -003X	NQR0470 -003X	OPEN	OPEN
R7144	OPEN	OPEN	0	0
R7145	OPEN	OPEN	0	0
R7146	OPEN	OPEN	0	0

c10265001a_11/12



DIGITAL SIGNAL PWB ASS'Y (11/11)
SFL0D105A-M2 [LT-32X575/KA]
SFL0D104A-M2 [LT-32X585/KA]

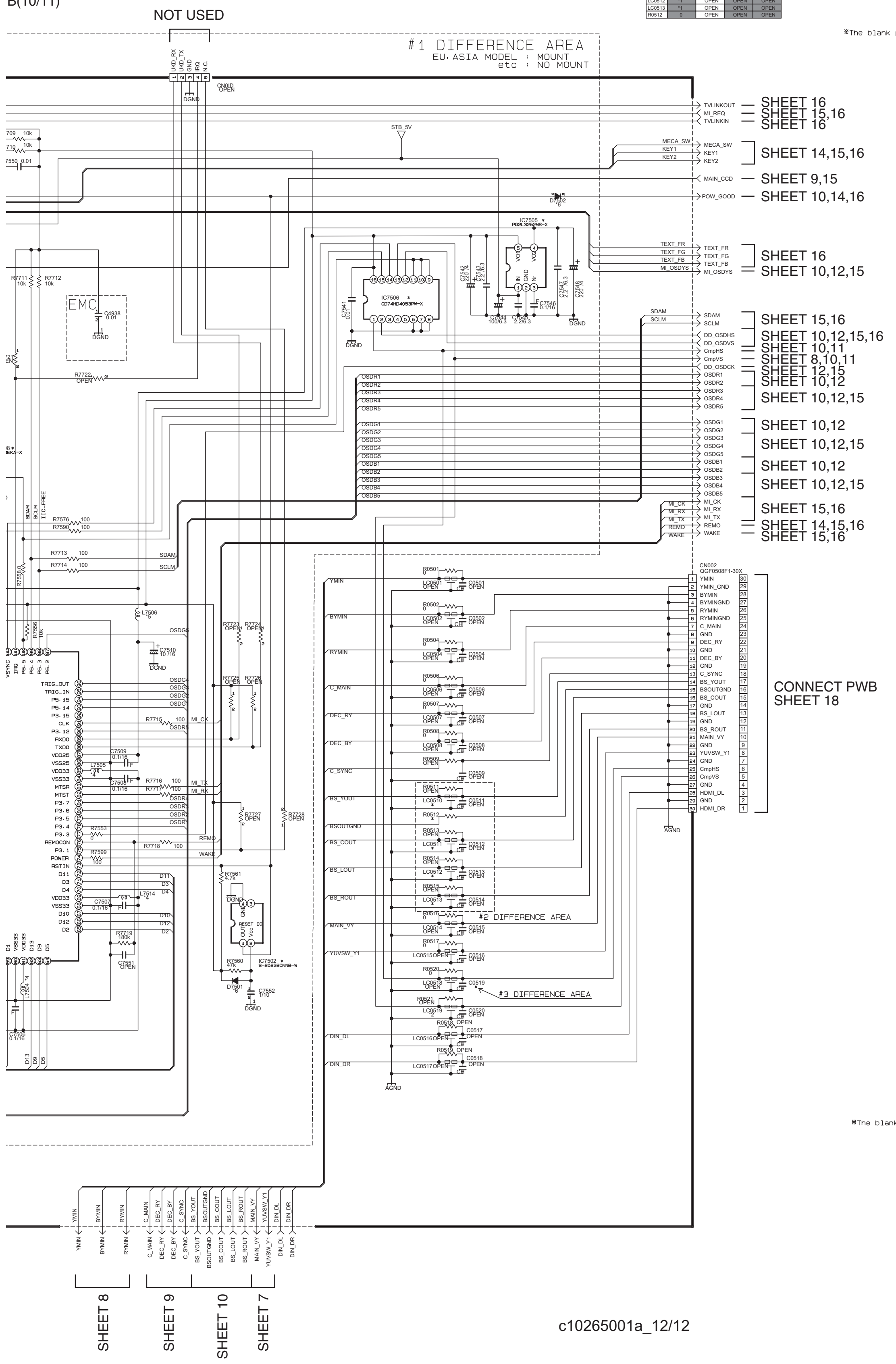
#3 DIFFERENCE LIST
(US MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
C0519	56p	OPEN	56p	56p

#2 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
LC0510	*1	OPEN	OPEN	OPEN
LC0511	*1	OPEN	OPEN	OPEN
LC0512	*1	OPEN	OPEN	OPEN
LC0513	*1	OPEN	OPEN	OPEN
R0512	0	OPEN	OPEN	OPEN

'B(10/11)



c10265001a_12/12

※The blank part of a difference list : Refer to circuit block.

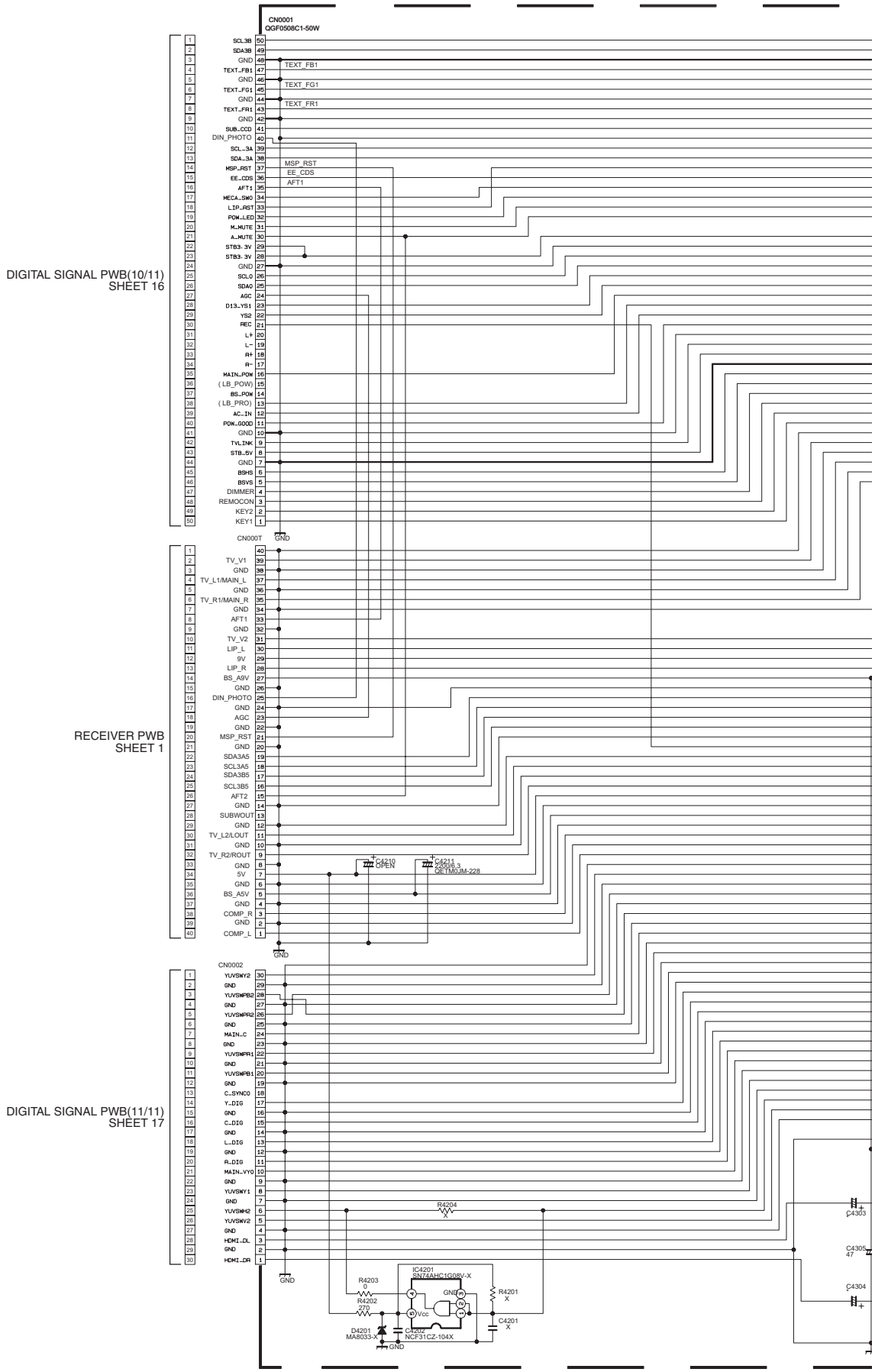
#1 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
R7701	OPEN	OPEN		
R7702	OPEN	OPEN		
R7703	OPEN	OPEN		
R7704	OPEN	OPEN		
R7705	OPEN	OPEN		
R7706	OPEN	OPEN		
R7707	OPEN	OPEN		
R7708	OPEN	OPEN		
R7709	OPEN	OPEN		
R7710	OPEN	OPEN		
R7711	OPEN	OPEN		
R7712	OPEN	OPEN		
R7713	OPEN	OPEN		
R7714	OPEN	OPEN		
R7715	OPEN	OPEN		
R7716	OPEN	OPEN		
R7717	OPEN	OPEN		
R7718	OPEN	OPEN		
R7720	OPEN	OPEN		
X7501	OPEN	OPEN	NAX0618 -001X	NAX0618 -001X
TP7501	OPEN	OPEN		
R7501	OPEN	OPEN		
R7510	OPEN	OPEN		
R7511	OPEN	OPEN		
R7512	OPEN	OPEN		
R7513	OPEN	OPEN		
R7514	OPEN	OPEN		
R7515	OPEN	OPEN		
R7516	OPEN	OPEN		
R7517	OPEN	OPEN		
R7518	OPEN	OPEN		
R7519	OPEN	OPEN		
R7520	OPEN	OPEN		
R7521	OPEN	OPEN		
R7553	OPEN	OPEN		
R7556	OPEN	OPEN		
R7557	OPEN	OPEN		
R7558	OPEN	OPEN		
R7559	OPEN	OPEN		
R7560	OPEN	OPEN		
R7561	OPEN	OPEN		
R7562	OPEN	OPEN		
R7563	OPEN	OPEN		
R7564	OPEN	OPEN		
R7565	OPEN	OPEN		
R7566	OPEN	OPEN		
R7567	OPEN	OPEN		
R7568	OPEN	OPEN		
R7576	OPEN	OPEN		
R7580	OPEN	OPEN		
R7581	OPEN	OPEN		
R7582	OPEN	OPEN		
R7583	OPEN	OPEN		
R7584	OPEN	OPEN		
R7585	OPEN	OPEN		
R7586	OPEN	OPEN		
R7587	OPEN	OPEN		
R7588	OPEN	OPEN		
R7589	OPEN	OPEN		
R7590	OPEN	OPEN		
R7599	OPEN	OPEN		
Q7501	OPEN	OPEN	2SA1162 /YG/-X	2SA1162 /YG/-X
Q7508	OPEN	OPEN	DTC114EKA -X	DTC114EKA -X
LC7501	OPEN	OPEN	NQR0313 -007X	NQR0313 -007X
LC7502	OPEN	OPEN	NQR0431 -001X	NQR0431 -001X
L7501	OPEN	OPEN		
L7502	OPEN	OPEN		
L7503	OPEN	OPEN		
L7504	OPEN	OPEN		
L7505	OPEN	OPEN		
L7506	OPEN	OPEN		
L7507	OPEN	OPEN		
L7508	OPEN	OPEN		
L7509	OPEN	OPEN		
L7510	OPEN	OPEN		
L7511	OPEN	OPEN		
L7512	OPEN	OPEN		
L7513	OPEN	OPEN		
L7514	OPEN	OPEN		
K7501	OPEN	OPEN	NRSA63J -390X	NRSA63J -390X
K7502	OPEN	OPEN		
K7503	OPEN	OPEN	NQR0389 -003X	NQR0389 -003X
IC7501	OPEN	OPEN	SDA6000 -B12	SDA6000 -B12
IC7502	OPEN	OPEN	S-80828 CNNB-W	S-80828 CNNB-W
IC7503	OPEN	OPEN	K4S641632H -TC75	K4S641632H -TC75
IC7504	OPEN	OPEN	MBV160J 90PT	MBV160J 90PT
IC7505	OPEN	OPEN	PQ2L3252 MS-X	PQ2L3252 MS-X
IC7506	OPEN	OPEN	CD74HC4053 PW-X	CD74HC4053 PW-X
D7501	OPEN	OPEN		
C7501	OPEN	OPEN		
C7502	OPEN	OPEN		
C7503	OPEN	OPEN		
C7504	OPEN	OPEN		
C7505	OPEN	OPEN		
C7506	OPEN	OPEN		
C7507	OPEN	OPEN		
C7508	OPEN	OPEN		
C7509	OPEN	OPEN		
C7510	OPEN	OPEN		
C7511	OPEN	OPEN		
C7512	OPEN	OPEN		
C7513	OPEN	OPEN		
C7514	OPEN	OPEN		
C7515	OPEN	OPEN		
C7516	OPEN	OPEN		
C7517	OPEN	OPEN		
C7518	OPEN	OPEN		
C7519	OPEN	OPEN		
C7520	OPEN	OPEN		
C7521	OPEN	OPEN		
C7522	OPEN	OPEN		
C7523	OPEN	OPEN		
C7524	OPEN	OPEN		
C7525	OPEN	OPEN		
C7526	OPEN	OPEN		
C7527	OPEN	OPEN		
C7528	OPEN	OPEN		
C7529	OPEN	OPEN		
C7530	OPEN	OPEN		
C7531	OPEN	OPEN		
C7532	OPEN	OPEN		
C7533	OPEN	OPEN		
C7534	OPEN	OPEN		
C7535	OPEN	OPEN		
C7536	OPEN	OPEN		
C7541	OPEN	OPEN		
C7542	OPEN	OPEN		
C7543	OPEN	OPEN		
C7544	OPEN	OPEN		
C7545	OPEN	OPEN		
C7546	OPEN	OPEN		
C7547	OPEN	OPEN		
C7548	OPEN	OPEN		
C7549	OPEN	OPEN		
C7550	OPEN	OPEN		
CN0MI	OPEN	OPEN	QGA1501F2 -07V	QGA1501F2 -07V
C7552	OPEN	OPEN		
D7502	OPEN	OPEN		
R7719	OPEN	OPEN		

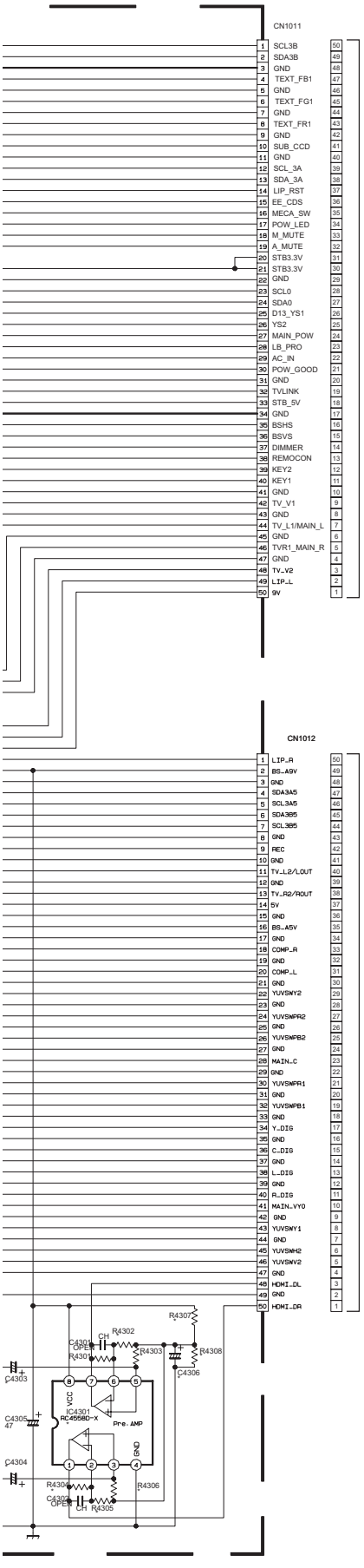
※The blank part of a difference list : Refer to circuit block.

#4 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE				
Selling Country	JPN	US	EU	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D105A SFL-0D104A	SFL-0D201A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -13 (etc)
C9102	OPEN	NCJ41EK -106X-U	NCJ41EK -106X-U	NCJ41EK -106X-U
C9104	OPEN			
C9105	OPEN	NCJ41EK -226X-U	NCJ41EK -226X-U	NCJ41EK -226X-U
C9106	OPEN			
C9107	OPEN			
C9108	OPEN	NCJ41EK -226X-U	NCJ41EK -226X-U	NCJ41EK -226X-U
C9111	OPEN			
C9112	OPEN			
D9101	OPEN	EC30HA03L -X	EC30HA03L -X	EC30HA03L -X
D9102	OPEN	EC30HA03L -X	EC30HA03L -X	EC30HA03L -X
D9103	OPEN	PTZ3.9B-X	PTZ3.9B-X	PTZ3.9B-X
D9104	OPEN	MA111-X	MA111-X	MA111-X
IC9101	OPEN	MP1580HS-X	MP1580HS-X	MP1580HS-X
L9101	OPEN	NQL71EM -150X	NQL71EM -150X	NQL71EM -150X
R9101	OPEN			
R9102	OPEN	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X
R9103	OPEN			
R9104	OPEN			
R9105	OPEN			
R9106	OPEN			
R9107	OPEN	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X
R9108	OPEN	NRSA02J -0R0X	NRSA02J -0R0X	NRSA02J -0R0X
R9109	OPEN			
R9208	470k	1M	1M	1M

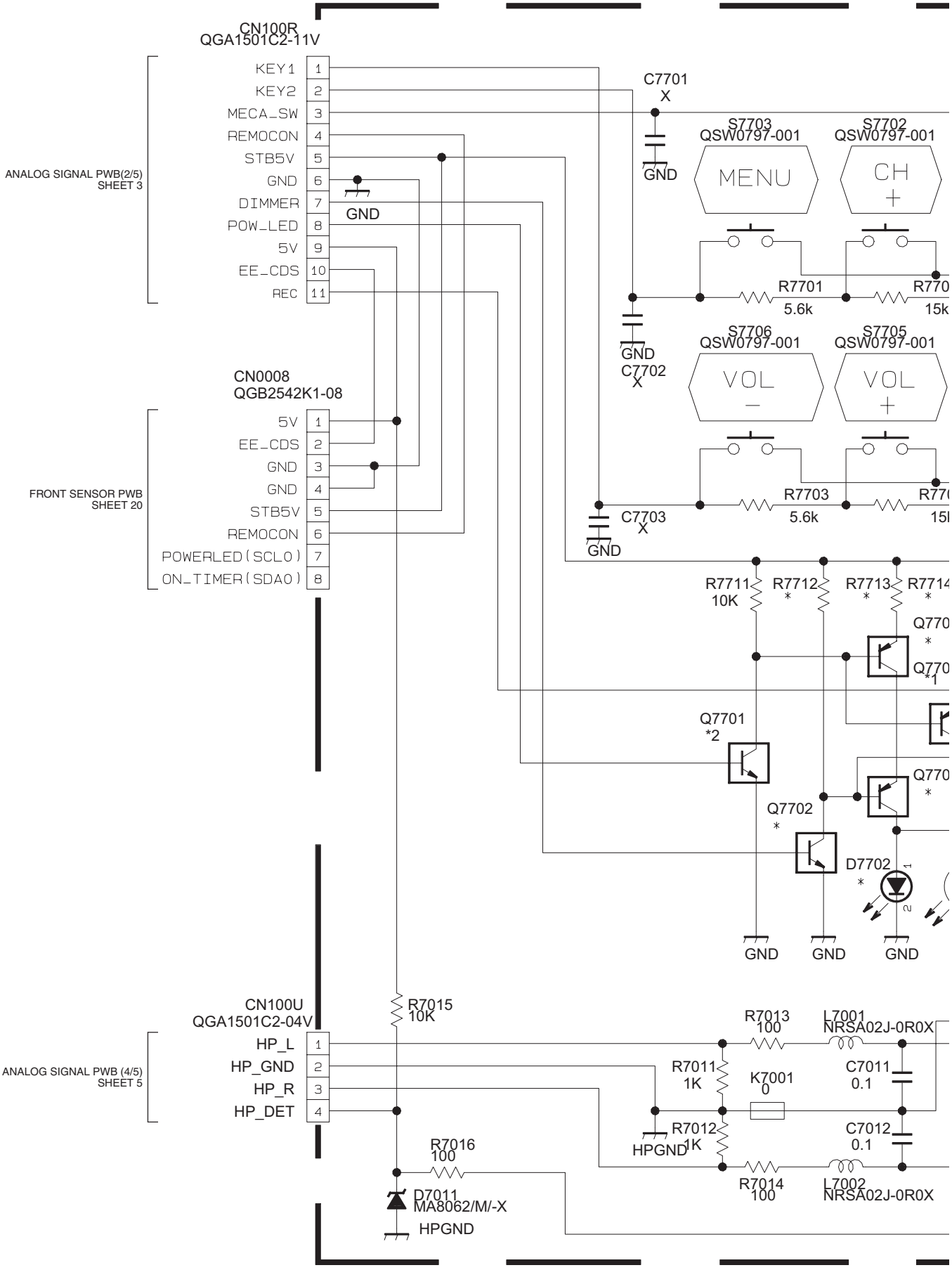

CN0001
QGF0508C1-50W
DIGITAL SIGNAL PWB(10/11)
SHEET 16
RECEIVER PWB
SHEET 1
DIGITAL SIGNAL PWB(11/11)
SHEET 17
CN000T
CN0002
TEXT_FB1
TEXT_FG1
TEXT_FR1
MSP_RST
EE_CDS
AFT1
C4210
OPEN
C4211
220M/6.3
QETM0JM-228
R4204
C4303
C4305
47
C4304
IC4201
SN74AHC1G08V-X
R4203
0
R4202
270
R4201
X
C4201
X
C4202
NCF31CZ-104X
D4201
MA8033-X
Vcc
GND

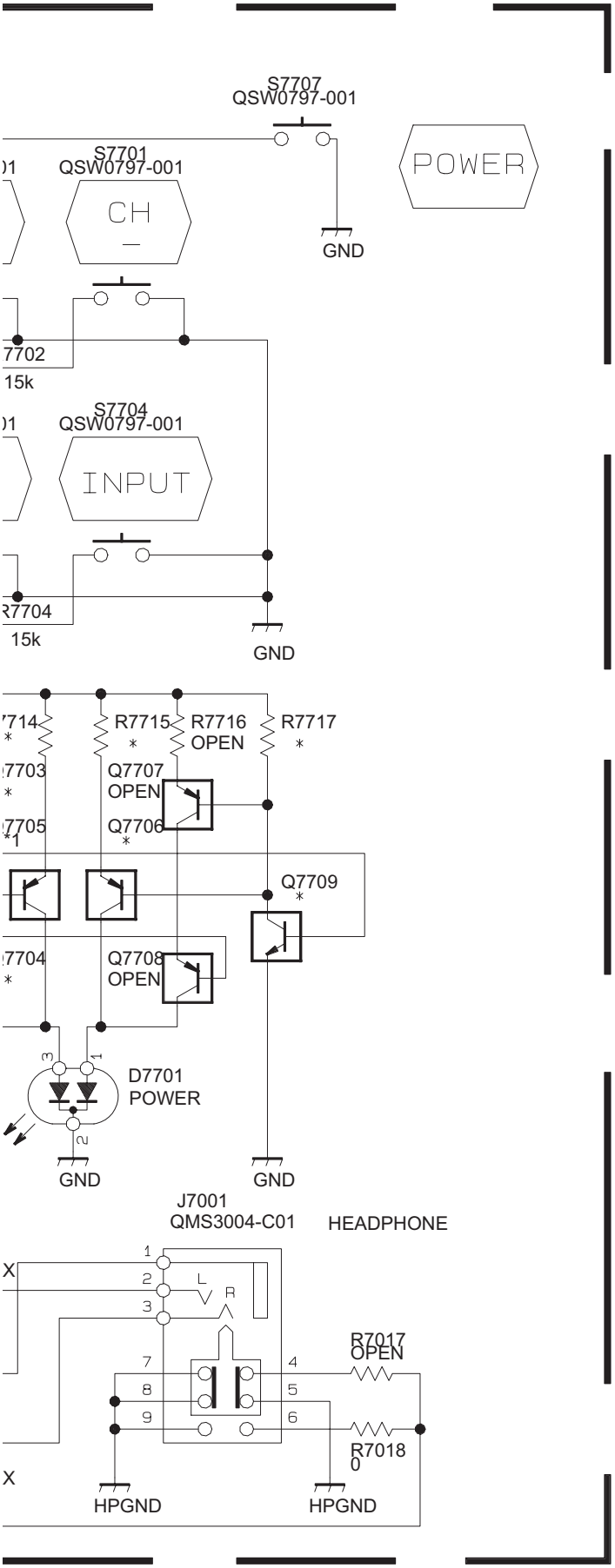
CONNECTOR PWB ASS'Y
SFL-4011A-M2



ASS'Y No.	LCA90353 -01*	LCA90353 -11*
	SFL-4002A	SFL-4011A
	OLLC06139	OLLC06377
IC4301	OPEN	RC4558D-X
R4301	OPEN	4.7K
R4302	OPEN	6.8K
R4303	OPEN	100K
R4304	OPEN	4.7K
R4305	OPEN	6.8K
R4306	OPEN	100K
R4307	OPEN	10K
R4308	OPEN	10K
C4303	OPEN	10/16
C4304	OPEN	10/16
C4305	OPEN	47/16
C4306	OPEN	47/16

c10257001a_1/1


CN100R
QGA1501C2-11V
KEY1
KEY2
MECA_SW
REMOCON
STB5V
GND
DIMMER
POW_LED
5V
EE_CDS
REC
ANALOG SIGNAL PWB(2/5)
SHEET 3
C7701
X
S7703
QSW0797-001
S7702
QSW0797-001
MENU
CH
+
R7701
5.6k
S7706
QSW0797-001
S7705
QSW0797-001
VOL
−
VOL
+
R7703
5.6k
C7702
X
C7703
X
CN0008
QGB2542K1-08
5V
EE_CDS
GND
GND
STB5V
REMOCON
POWERLED(SCLO)
ON_TIMER(SDAO)
FRONT SENSOR PWB
SHEET 20
R7711
10K
R7712
*
R7713
*
Q7701
*2
Q7702
*
D7702
*
CN100U
QGA1501C2-04V
HP_L
HP_GND
HP_R
HP_DET
ANALOG SIGNAL PWB (4/5)
SHEET 5
R7015
10K
R7013
100
L7001
NRSA02J-0R0X
R7011
1K
K7001
0
C7011
0.1
R7012
1K
HPGND
C7012
0.1
R7016
100
R7014
100
L7002
NRSA02J-0R0X
D7011
MA8062/M/-X
HPGND
GND

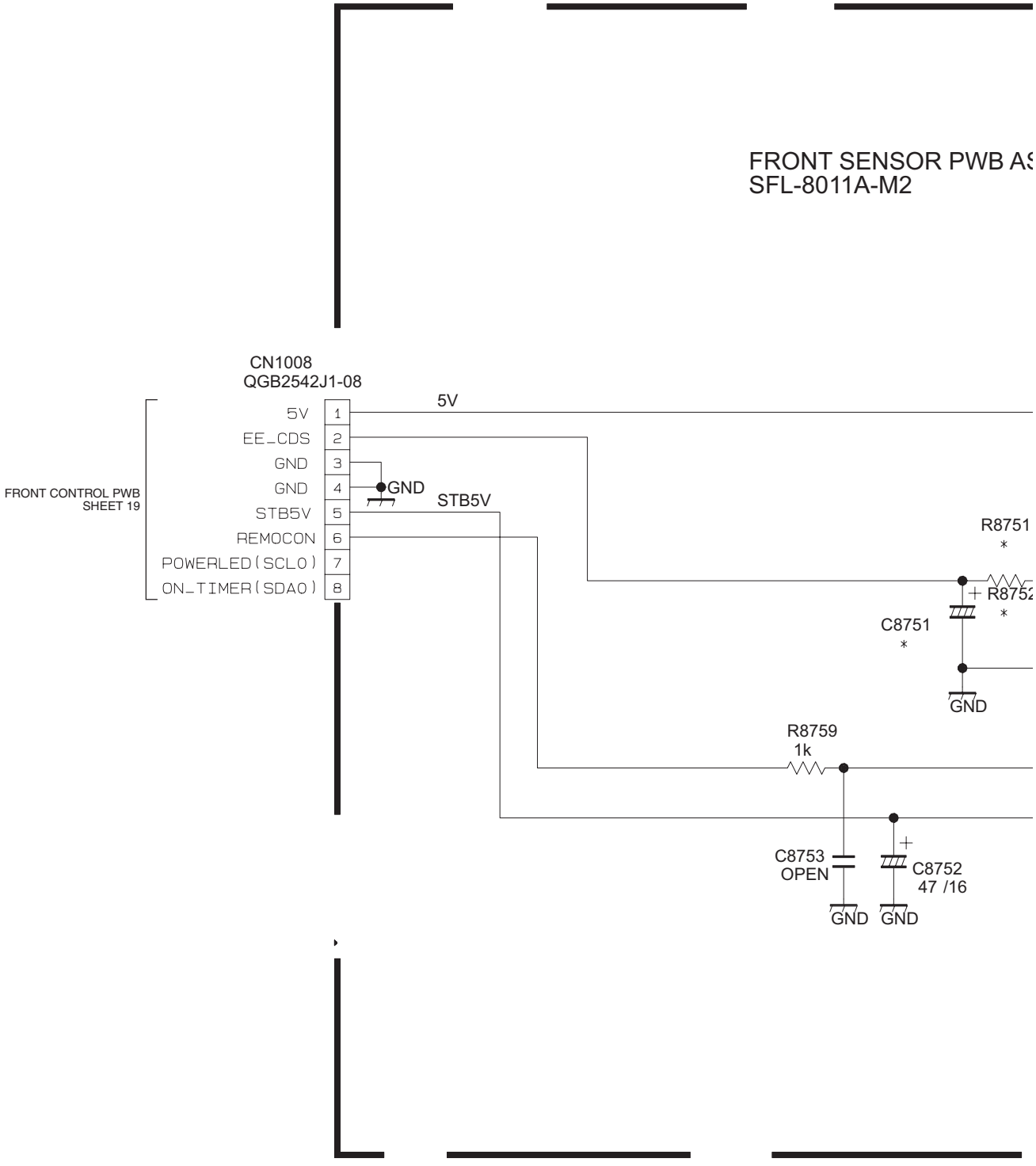


FRONT CONTROL PWB ASS'Y
SFL-7011A-M2

ASS' Y No.	LCA90351 -01*	LCA90351 -11*
	SFL-7002A	SFL-7011A
	OLLC06137	OLLC06375
D7701	SML1216W	OPEN
D7702	OPEN	HLMPNS30 J00-T16
Q7702	OPEN	UN2212-X
Q7703	OPEN	UN2110-X
Q7704	OPEN	UN2110-X
Q7706	UN2110-X	OPEN
Q7709	UN2212-X	OPEN
R7712	OPEN	10K
R7713	OPEN	330
R7714	1.5K	2.2K
R7715	1.5K	OPEN
R7717	10K	OPEN

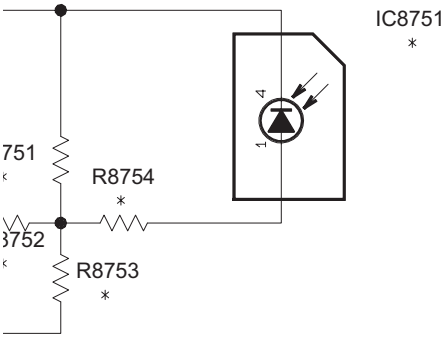
c30124001a_1/1

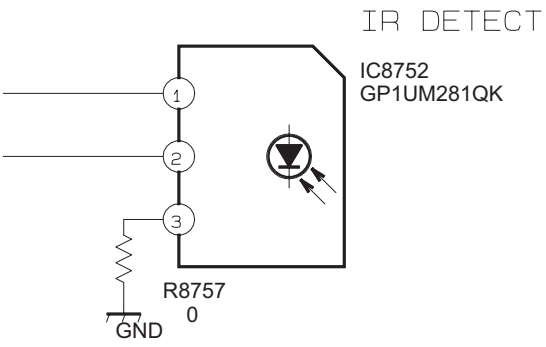
FRONT SENSOR PWB CIRCUIT DIAGRAM SHEET 20



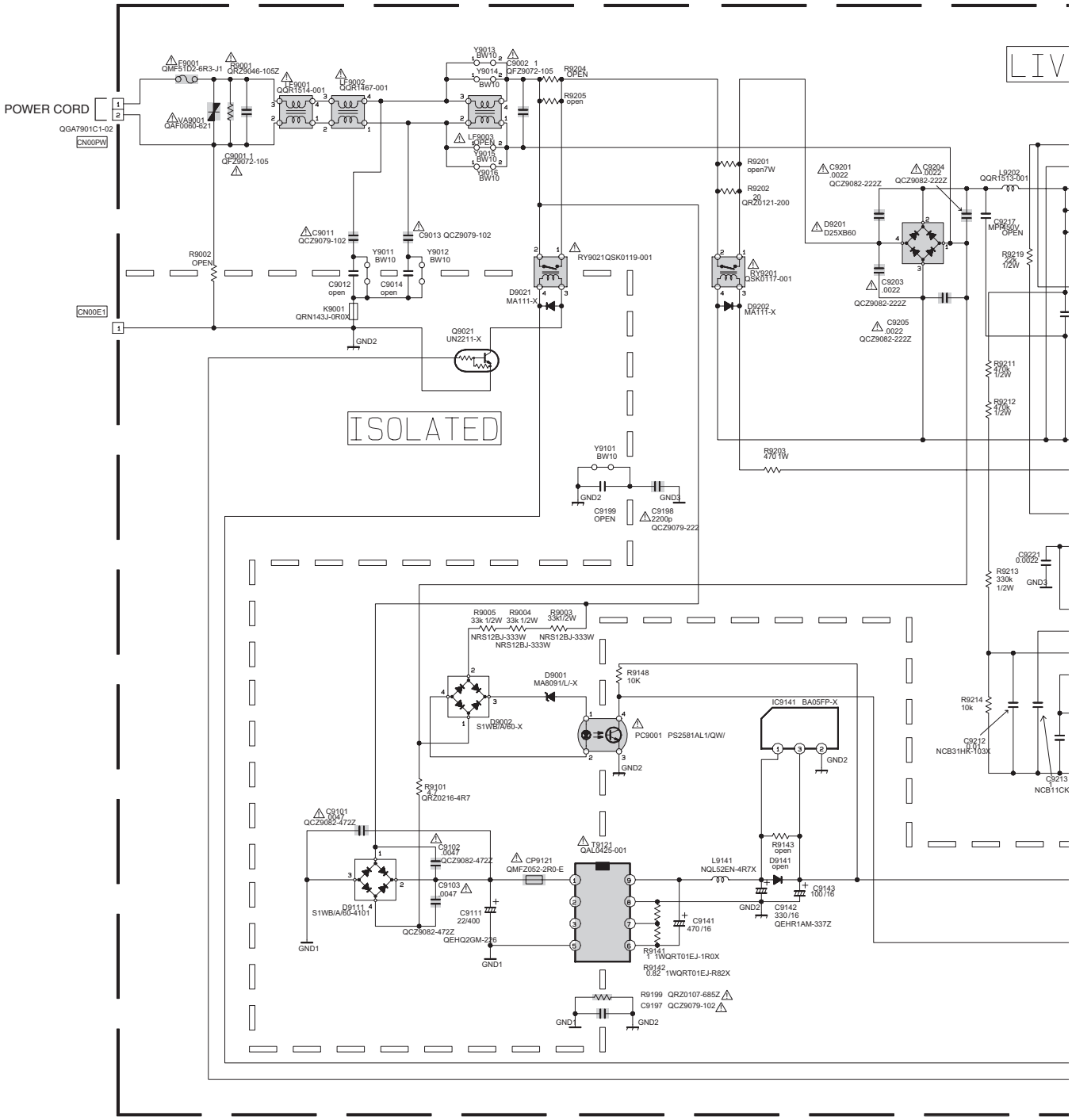
ASS'Y

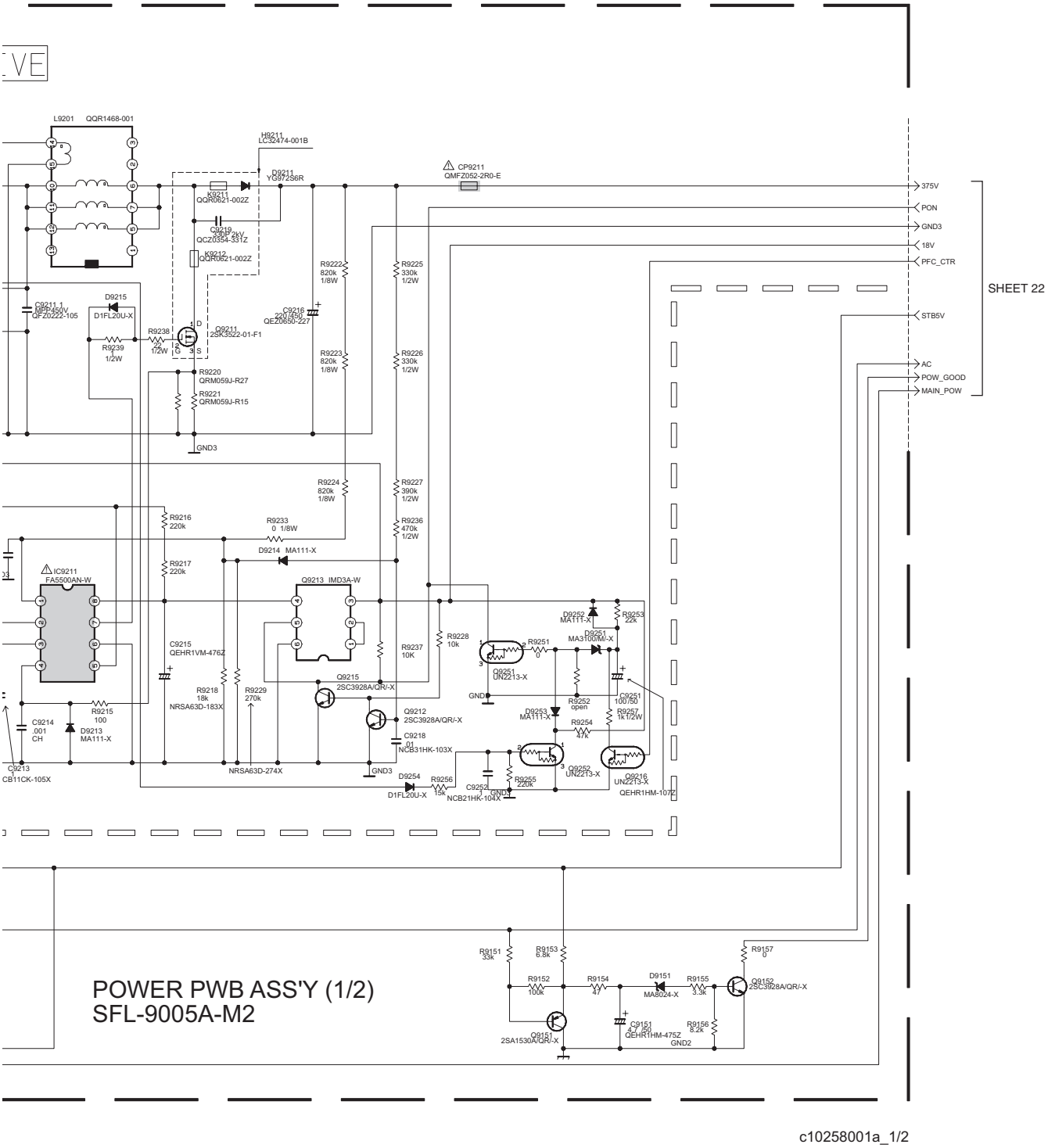
ASS' Y No.	LCA90352 -01*	LCA90352 -11*
	SFL-8002A	SFL-8011A
	OLLC06139	OLLC06377
IC8751	S9066-11	OPEN
R8751	270K	OPEN
R8752	100	OPEN
R8753	68K	OPEN
R8754	33K	OPEN
C8751	22/6.3	OPEN



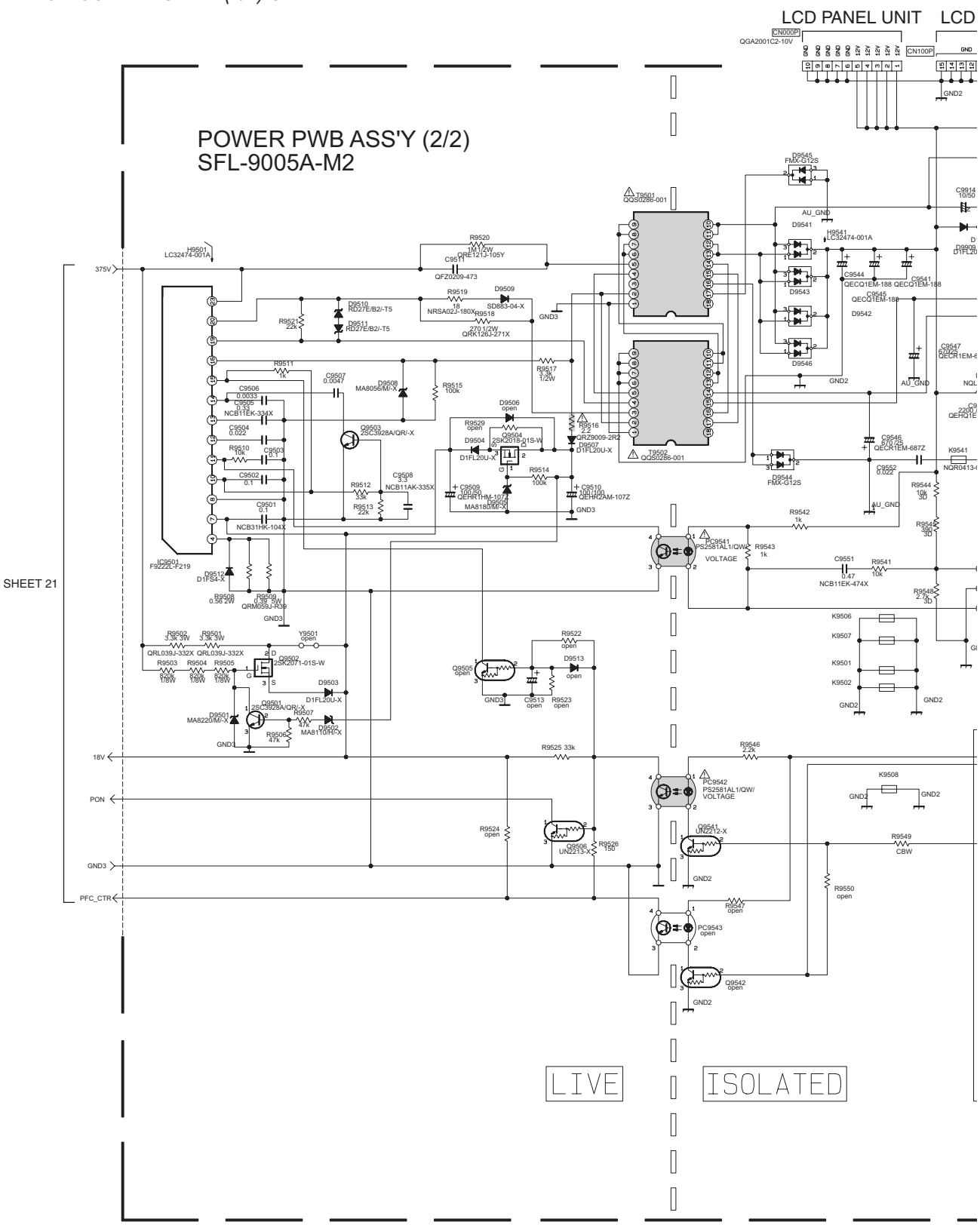


c30125001a_1/1


POWER CORD
QGA7901C1-02
CN00PW
CN00E1
ISOLATED
LIV
F9001 QMF51D2-6R3-J1
R9001 QRZ9046-105Z
VA9001 QAF0080-821
LF9001 QQR1514-001
LF9002 QQR1467-001
C9001 1 QF29072-105
Y9013 BW10
Y9014 BW10
C9002 1 QFZ9072-105
R9204 OPEN
R9205 open
LF9003 OPEN
Y9015 BW10
Y9016 BW10
R9201 open7W
R9202 20 QRZ0121-200
C9201 .0022 QCZ9082-222Z
C9204 .0022 QCZ9082-222Z
L9202 QQR1513-001
D9201 D25XB60
C9217 MPR50V OPEN
R9219 22k 1/2W
C9203 .0022 QCZ9082-222Z
C9205 .0022 QCZ9082-222Z
C9011 QCZ9079-102
C9013 QCZ9079-102
R9002 OPEN
Y9011 BW10
Y9012 BW10
C9012 open
C9014 open
K9001 QRN143J-0R0X
RY9021QSK0119-001
D9021 MA111-X
RY9201 QSK0117-001
D9202 MA111-X
Q9021 UN2211-X
GND2
R9211 470k 1/2W
R9212 470k 1/2W
Y9101 BW10
GND3
C9199 OPEN
C9198 2200p QCZ9079-222
R9203 470 1W
C9221 0.0022
R9213 330k 1/2W
R9005 33k 1/2W NRS12BJ-333W
R9004 33k 1/2W NRS12BJ-333W
R9003 33k 1/2W NRS12BJ-333W
D9001 MA8091/L/-X
D9902 S1WB/A/60-X
R9148 10K
PC9001 PS2581AL1/QW/
IC9141 BA05FP-X
GND2
R9214 10k
C9212 0.01 NCB31HK-103X
C9213 NCB11CK
R9101 4.7 QRZ0216-4R7
C9101 .0047 QCZ9082-472Z
C9102 .0047 QCZ9082-472Z
C9103 .0047
D9111 S1WB/A/60-4101
C9111 22/400 QEHQ2GM-226
GND1
CP9121 QMFZ052-2R0-E
T9121 QAL0425-001
L9141 NQL52EN-4R7X
R9143 open
D9141 open
C9142 330 /16 QEHR1AM-337Z
C9143 100/16
C9141 470 /16
R9141 1 1WQRT01EJ-1R0X
R9142 0.82 1WQRT01EJ-R82X
R9199 QRZ0107-685Z
C9197 QCZ9079-102



c10258001a_1/2



ASSY NO. - MODEL LIST

SFL-9002A	LT-26LC50BA/BB/SA
SFL-9003A	LT-32LC50BA/SA
SFL-9004A	LT-26X585KA/X575KA
SFL-9005A	LT-32X585KA/575KA

DIFFERENCE LIST

NOTE	JPN	US
	SFL-9002A	SFL-9005A
IC9603	PQ20WZ11-X	open
Q9601	UN2213-X	open
D9601	MA8051/M/-X	open
D9605	D1FS4-X	open
D9606	MA111-X	open

DIFFERENCE LIST

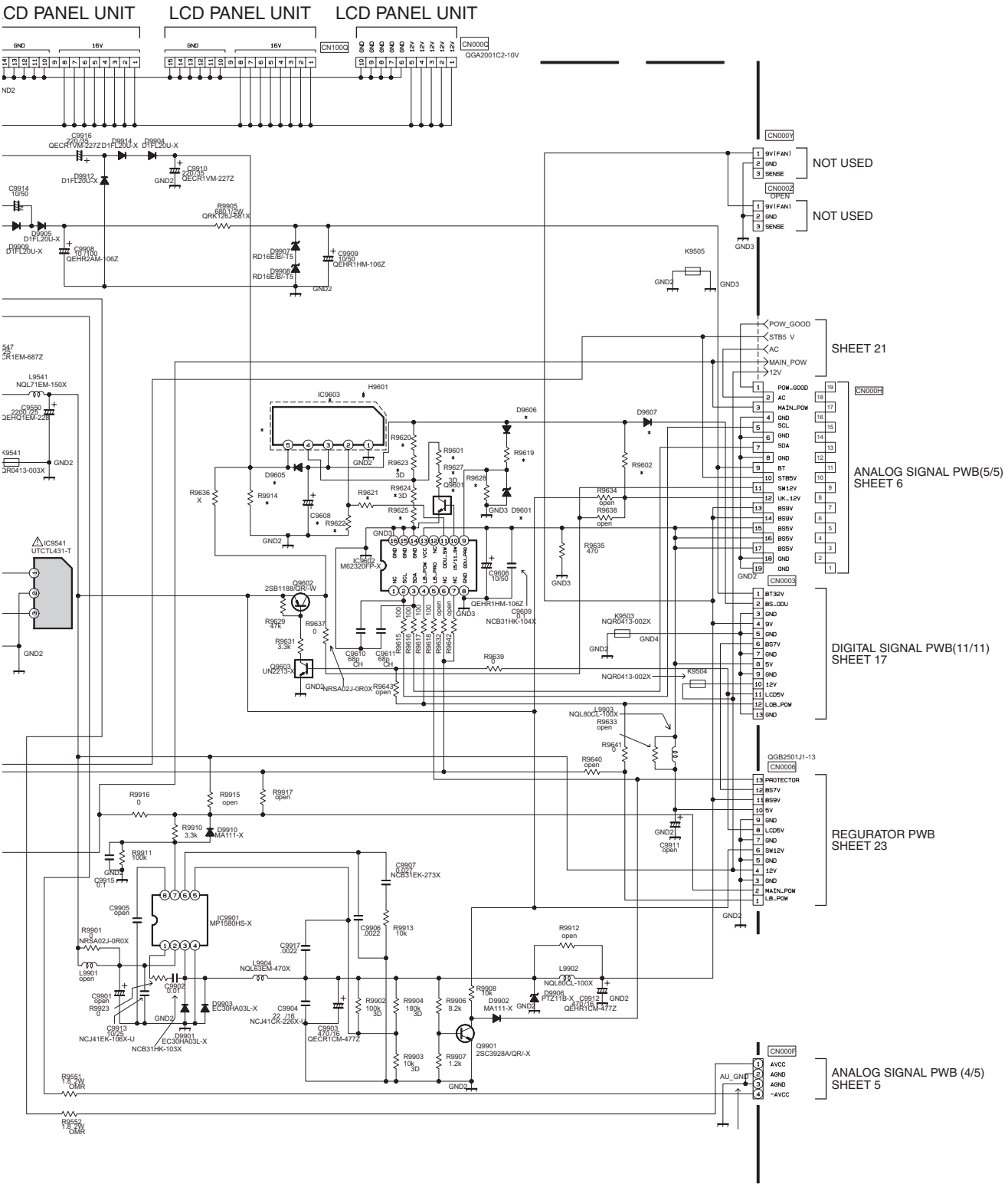
NOTE	JPN	US
	SFL-9002A	SFL-9005A
D9607	D1FS4-X	open
D9904	D1FS4-X	open
R9619	12k	open
R9620	100	open
R9621	33k	open

DIFFERENCE LIST

NOTE	JPN	US
	SFL-9002A	SFL-9005A
R9622	330k	open
R9623	NRSA63D-183X	open
R9624	NRSA63D-682X	open
R9625	33k	open
R9627	NRSA63D-103X	open

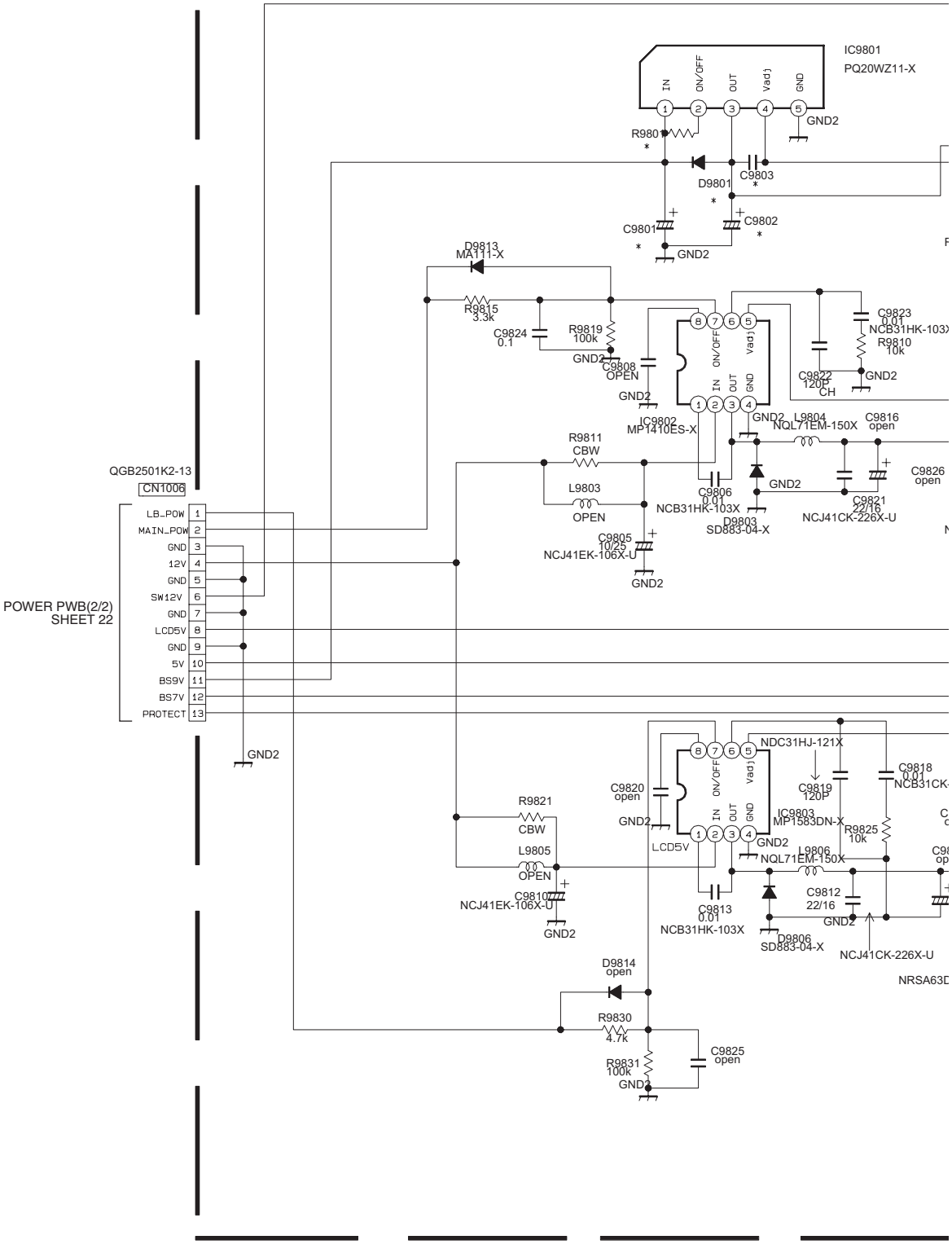
DIFFERENCE LIST

NOTE	JPN	US
	SFL-9002A	SFL-9005A
R9628	10k	open
C9607	QEHR1EM-107Z	open
C9608	QEHR1EM-107Z	open
C9610	NCB31CK-104X	open
C9910	QEHR1EM-107Z	open

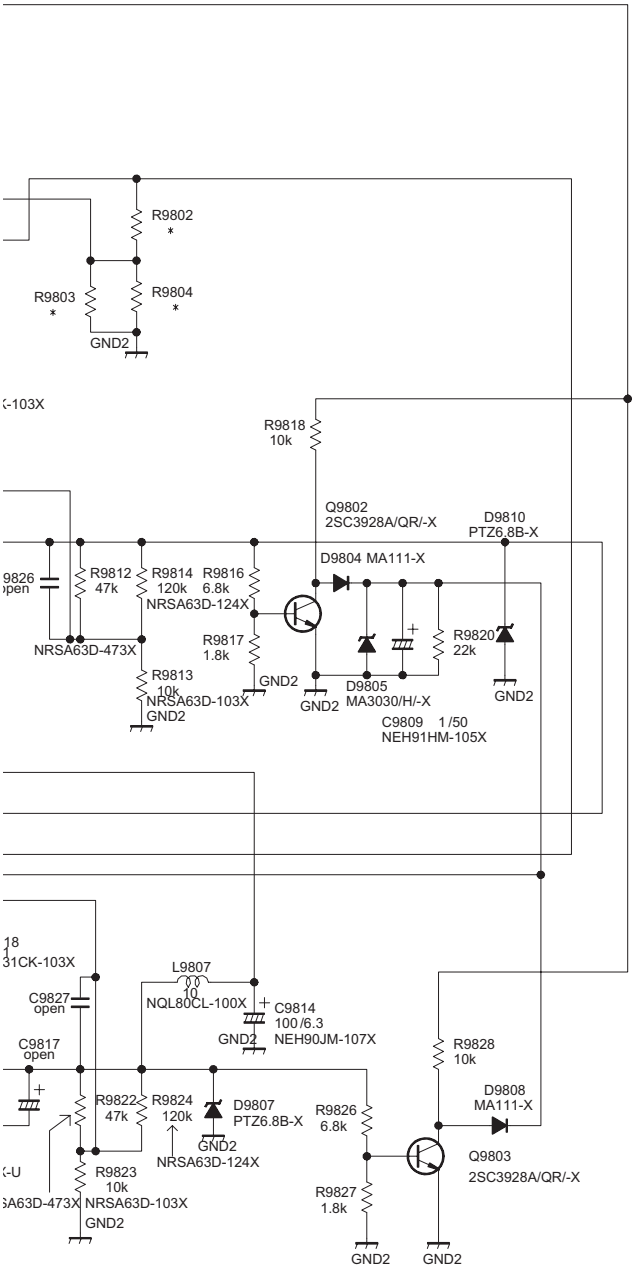


US
SFL-9005A
open
open
open
open
open

REGURATOR PWB ASS
SFL-9105A-M2



SS'Y



DIFFERENCE LIST

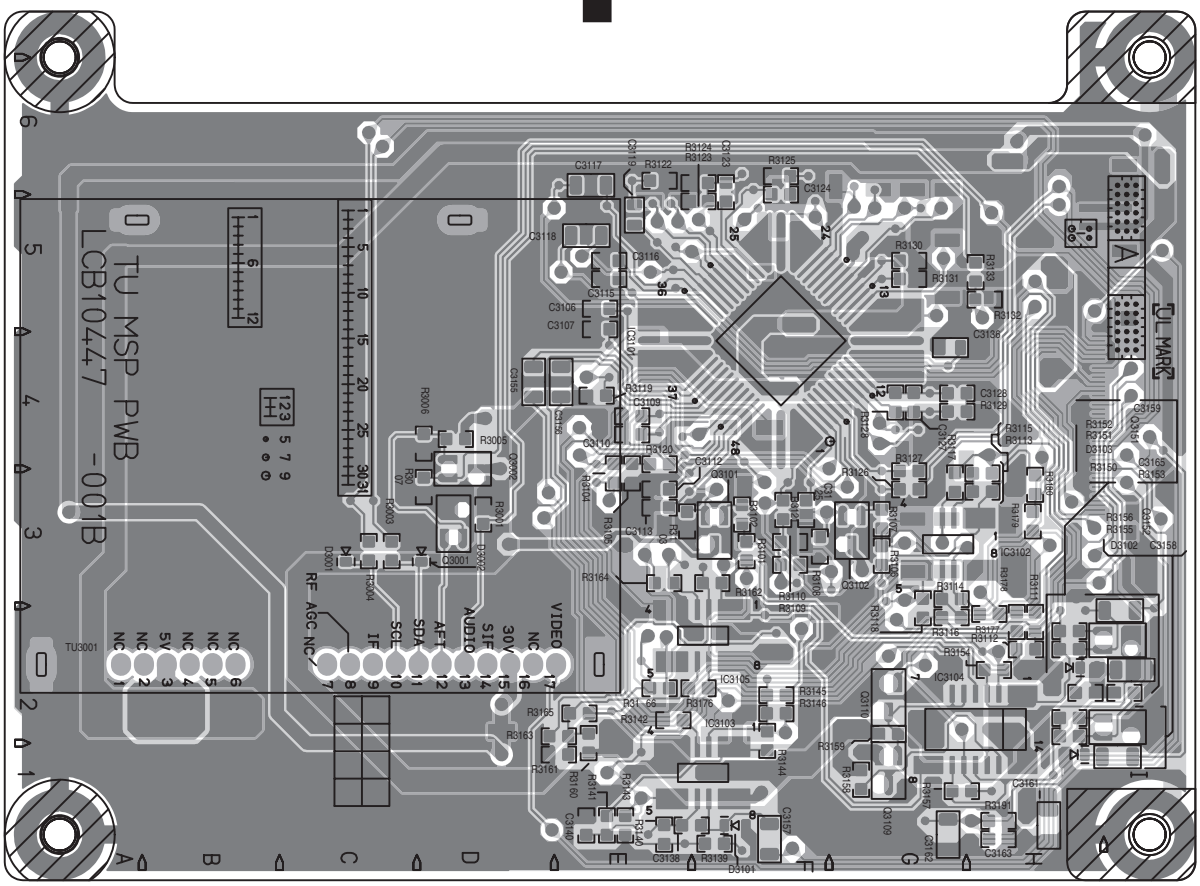
NOTE	JPN	US
	SFL-9102A etc	SFL-9105A etc
IC9801	PQ20WZ11-X	open
D9801	D1FS4-X	open
R9801	10k	open
R9802	NRSA63D-472X	open
R9803	NRSA63J-183X	open
R9804	NRSA63D-332X	open
C9801	NEH91CM-476X	open
C9802	NEH91CM-476X	open
C9803	NCB31HK-104X	open

c20111001a_1/1

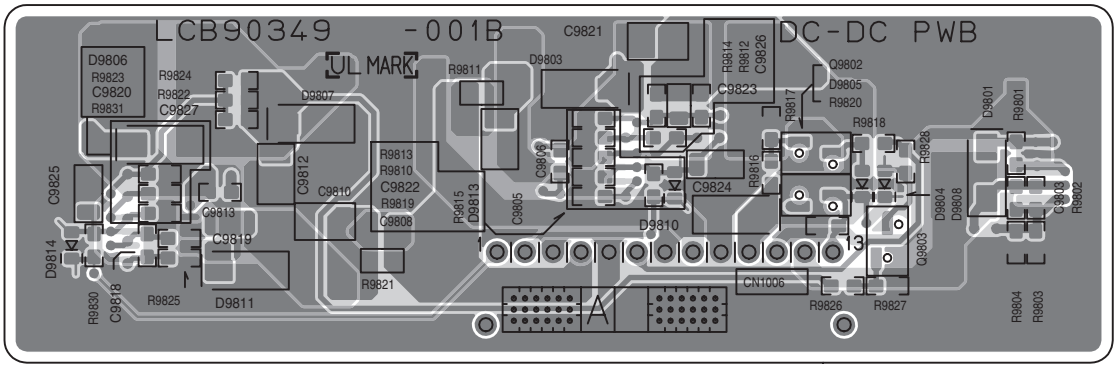
PATTERN DIAGRAMS

RECEIVER PWB PATTERN [SOLDER SIDE]

TOP

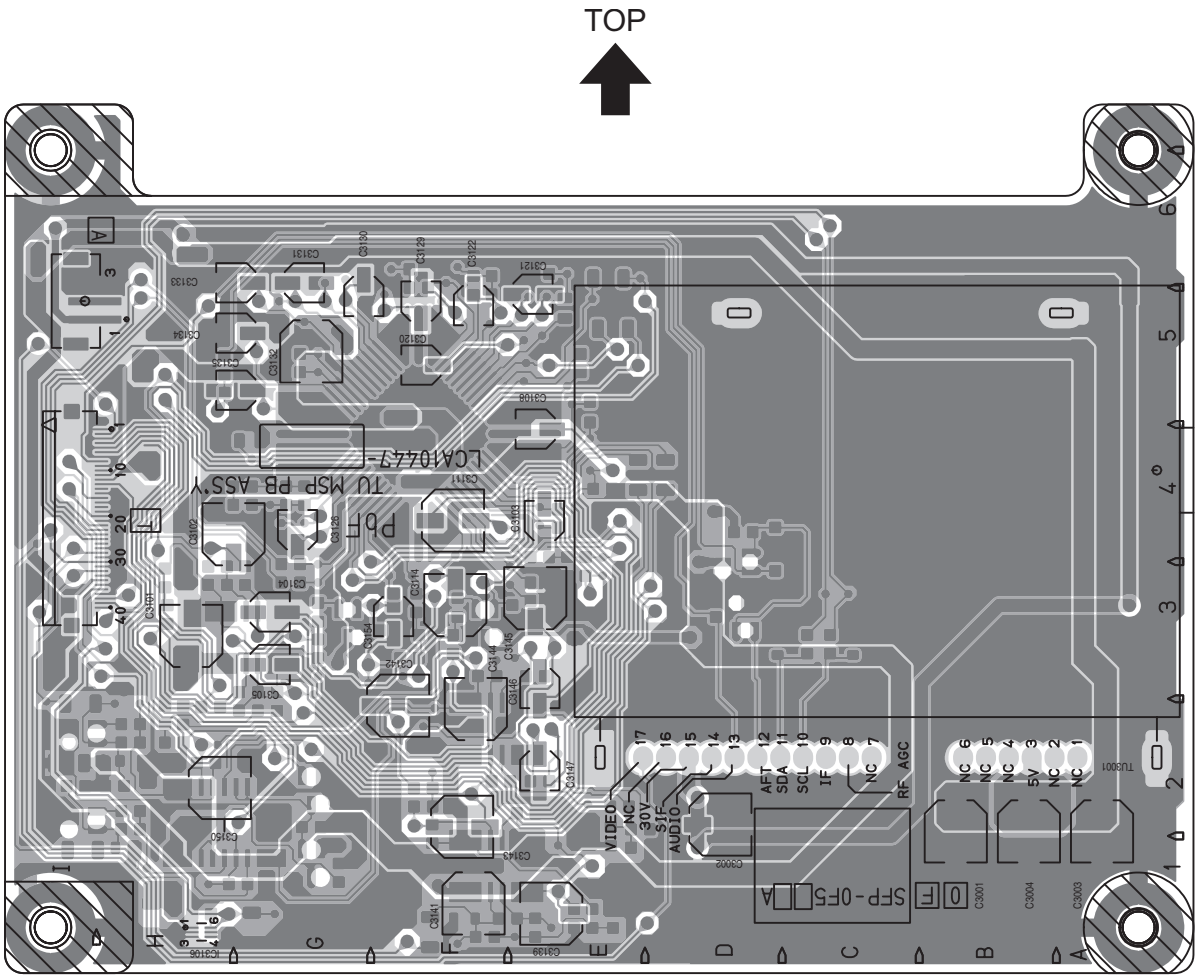


REGULATOR PWB PATTERN [SOLDER SIDE]

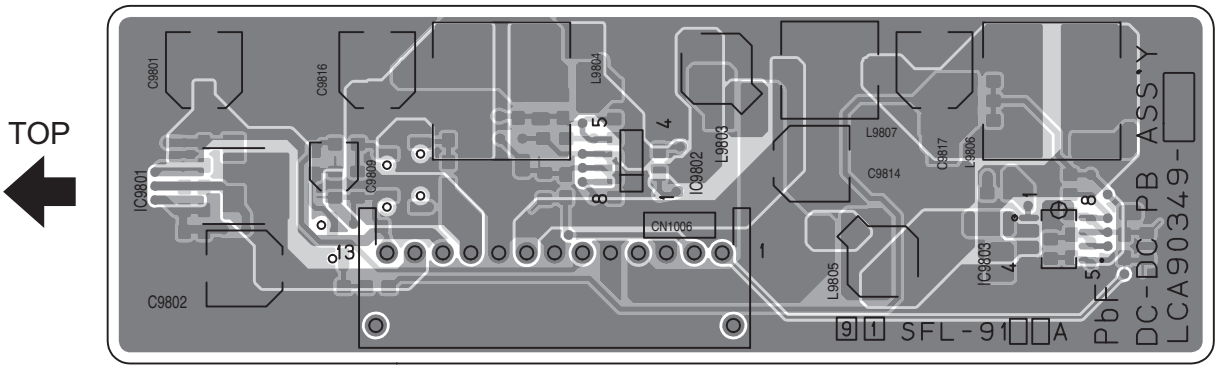


TOP

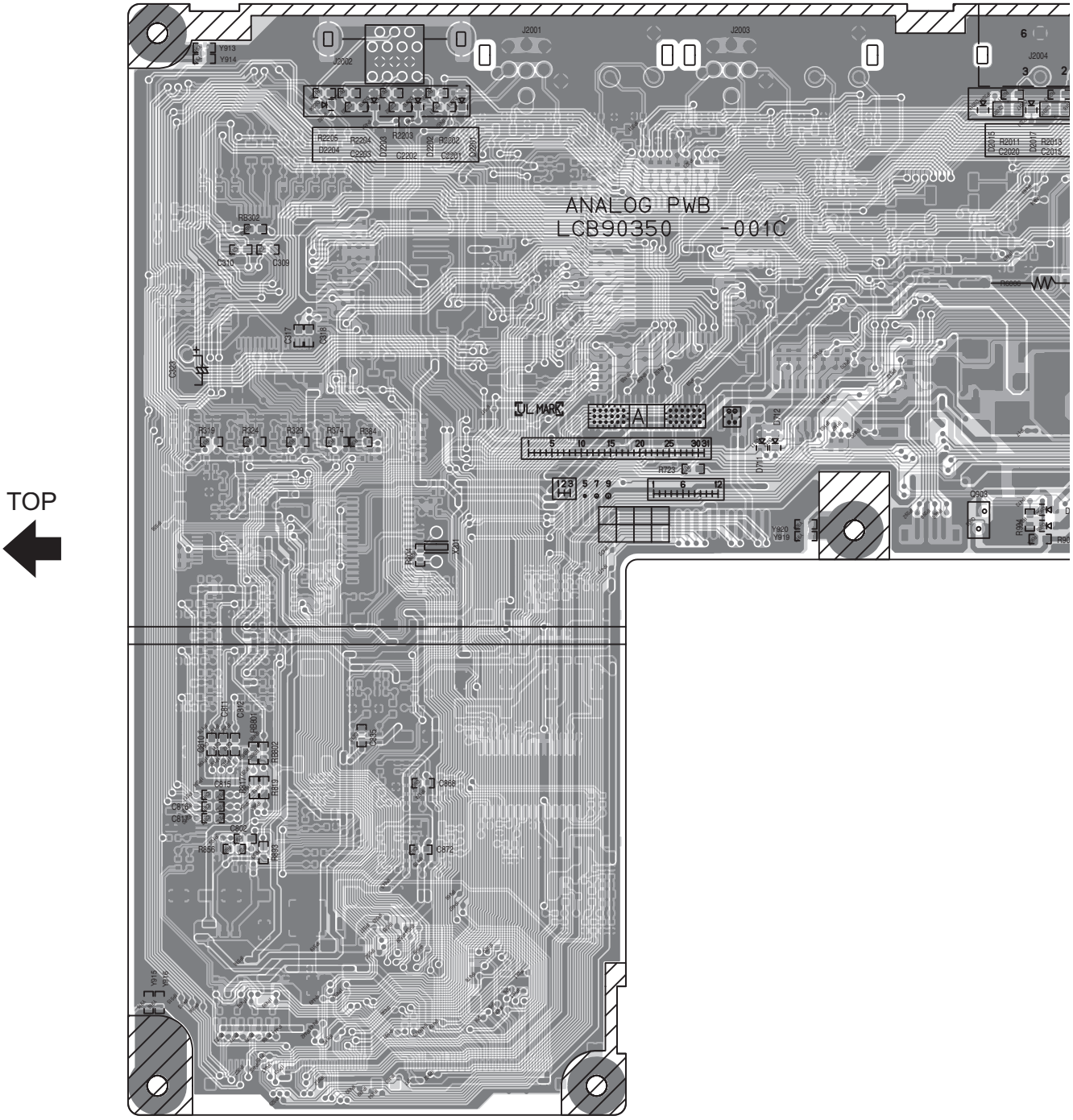
RECEIVER PWB PATTERN [PARTS SIDE]

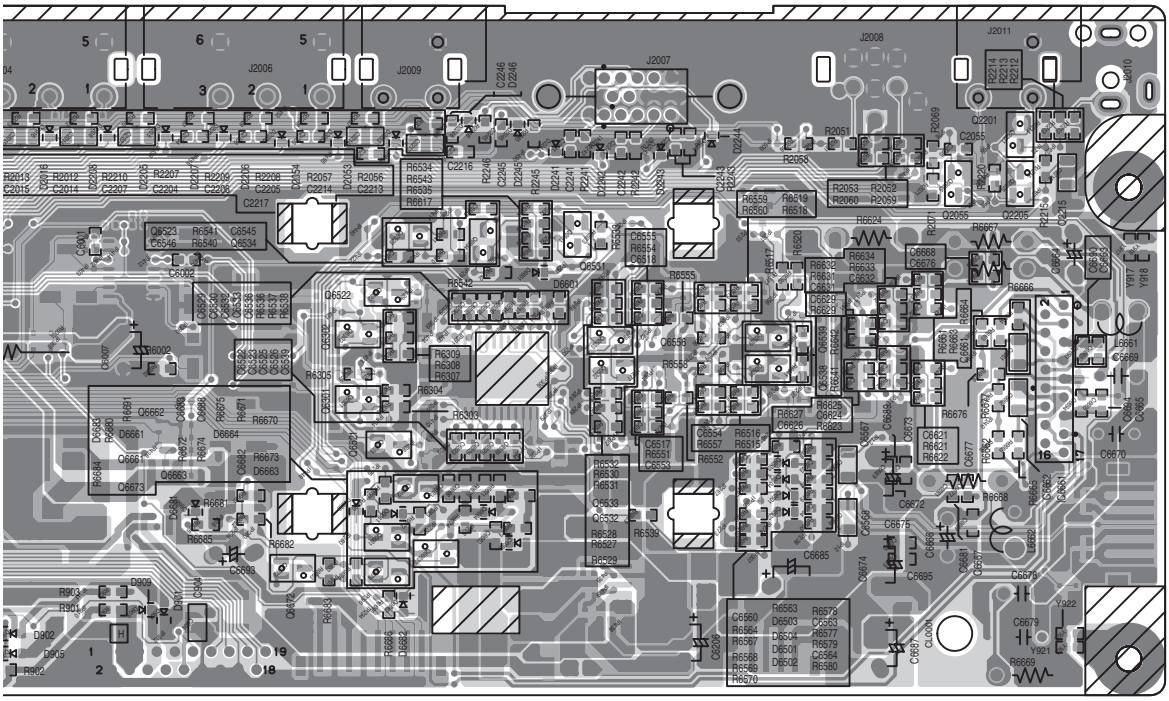


REGULATOR PWB PATTERN [PARTS SIDE]

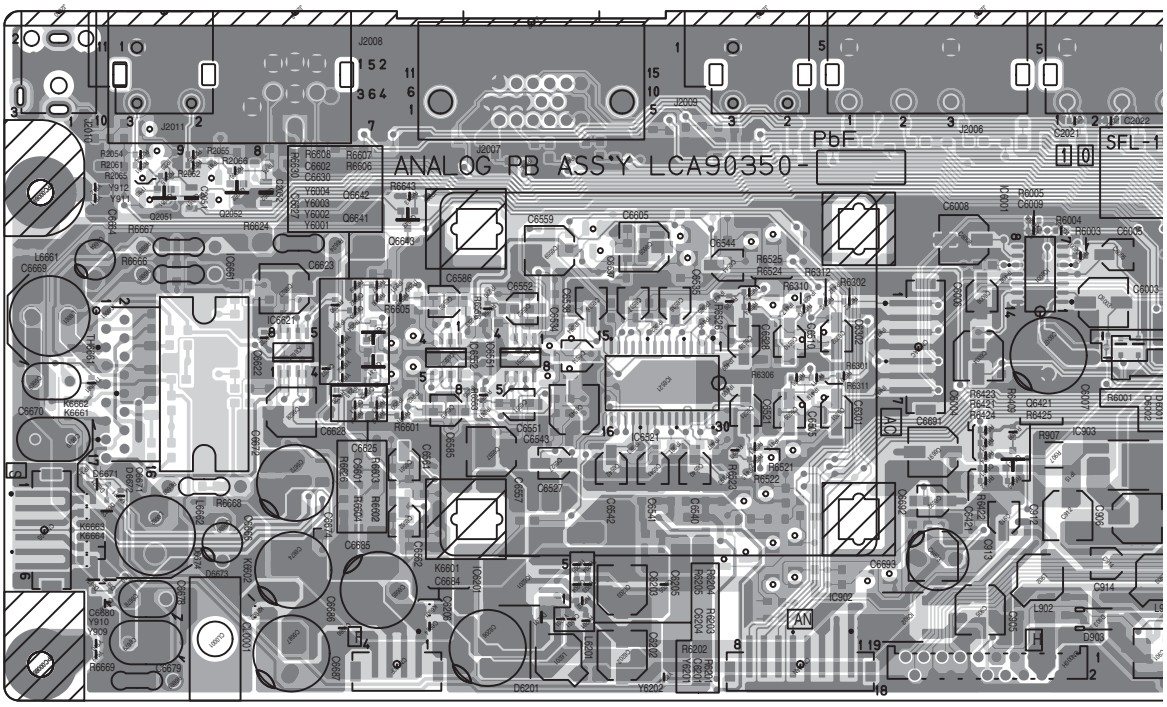


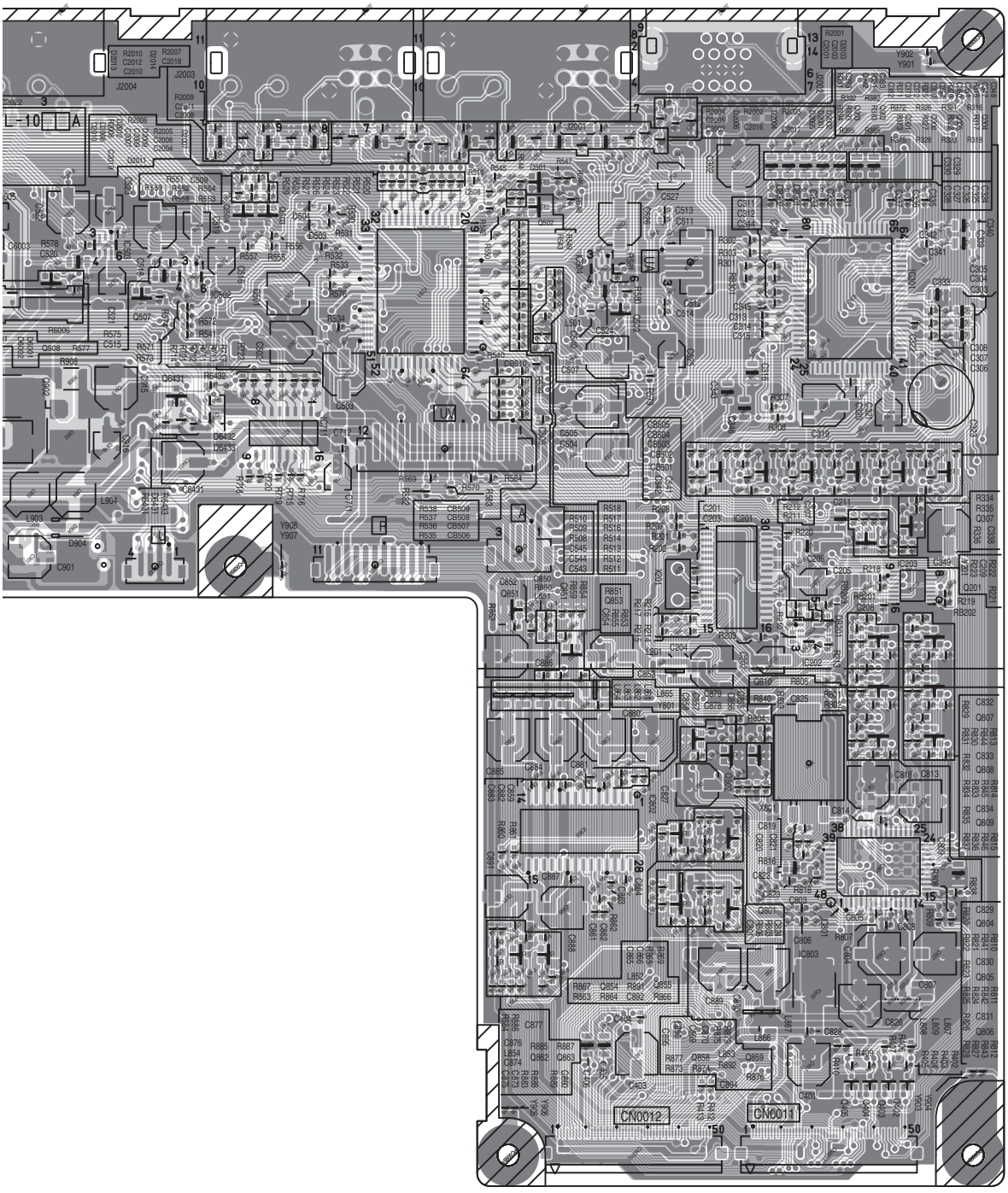
ANALOG SIGNAL PWB PATTERN [SOLDER SIDE]





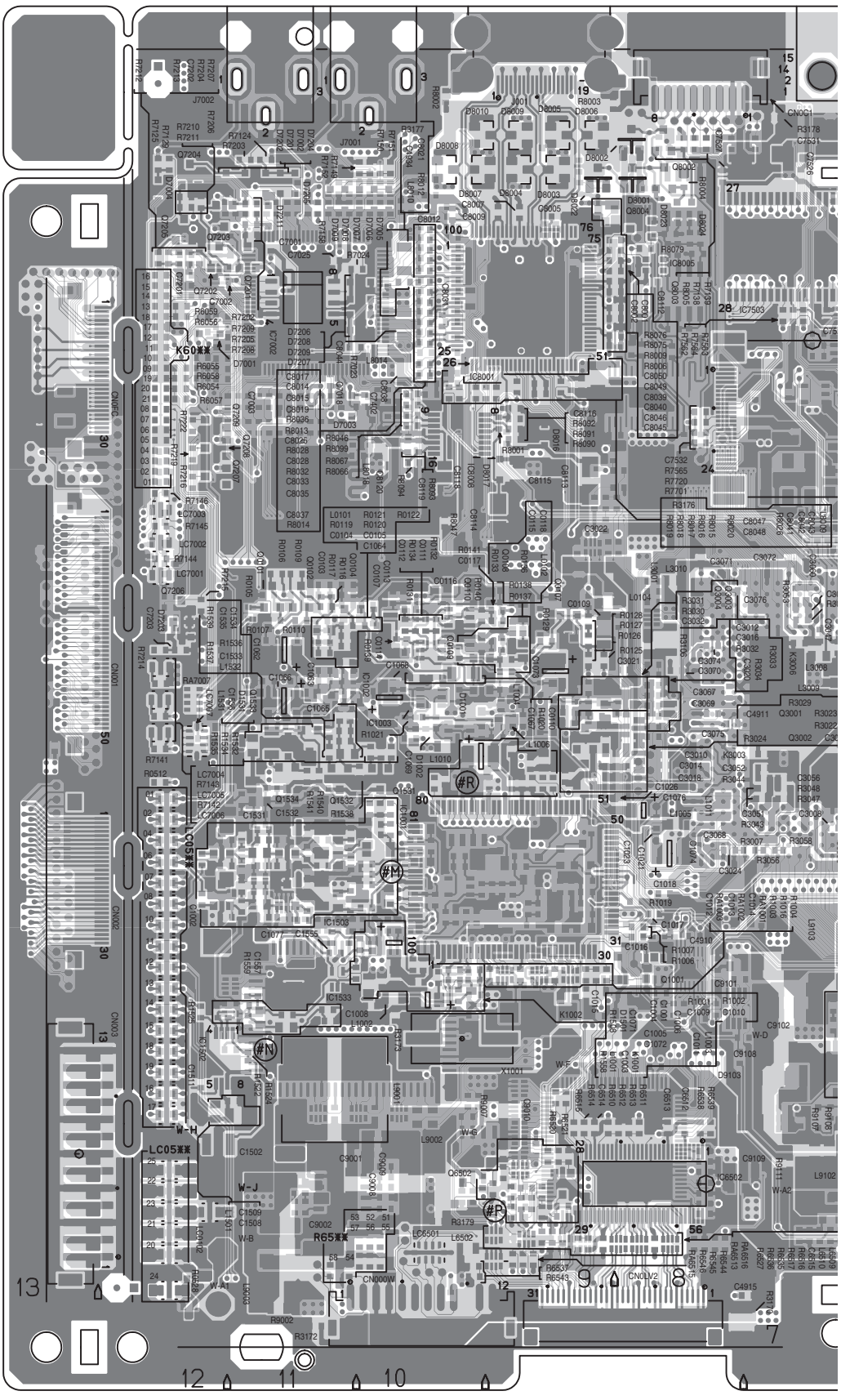
ANALOG SIGNAL PWB PATTERN [PARTS SIDE]

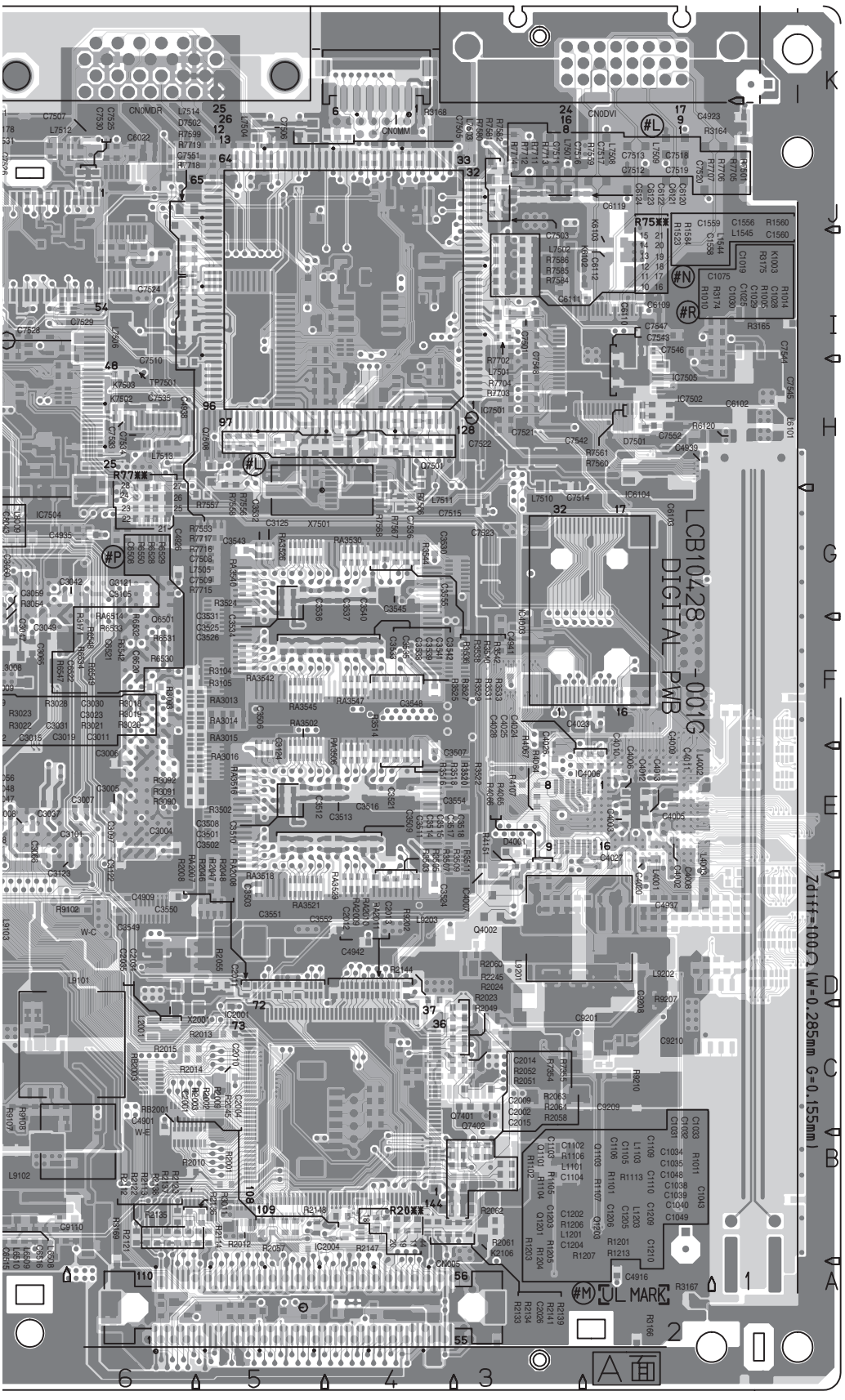



TOP
CN0012
CN0011

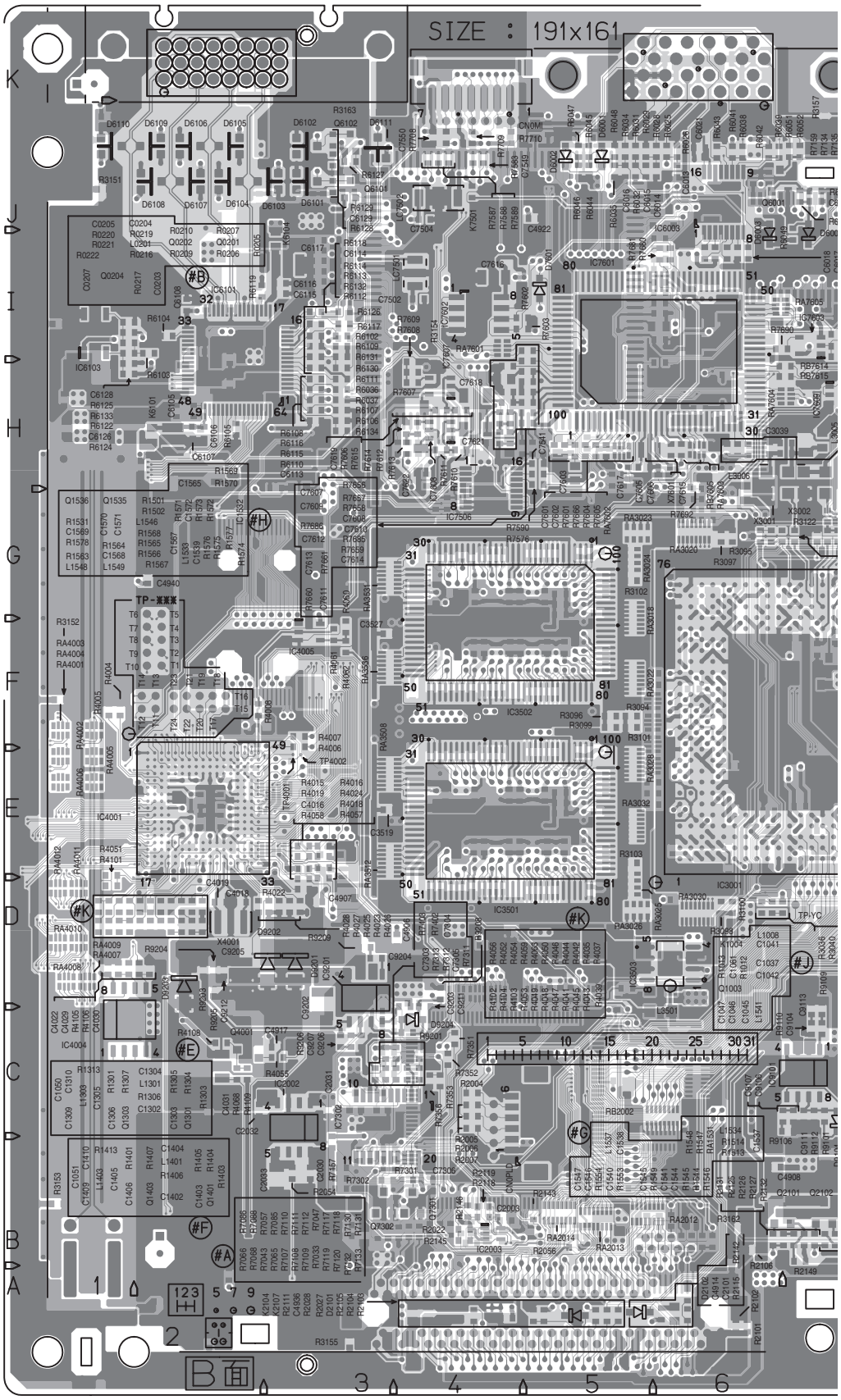
DIGITAL SIGNAL PWB PATTERN [SOLDER SIDE]

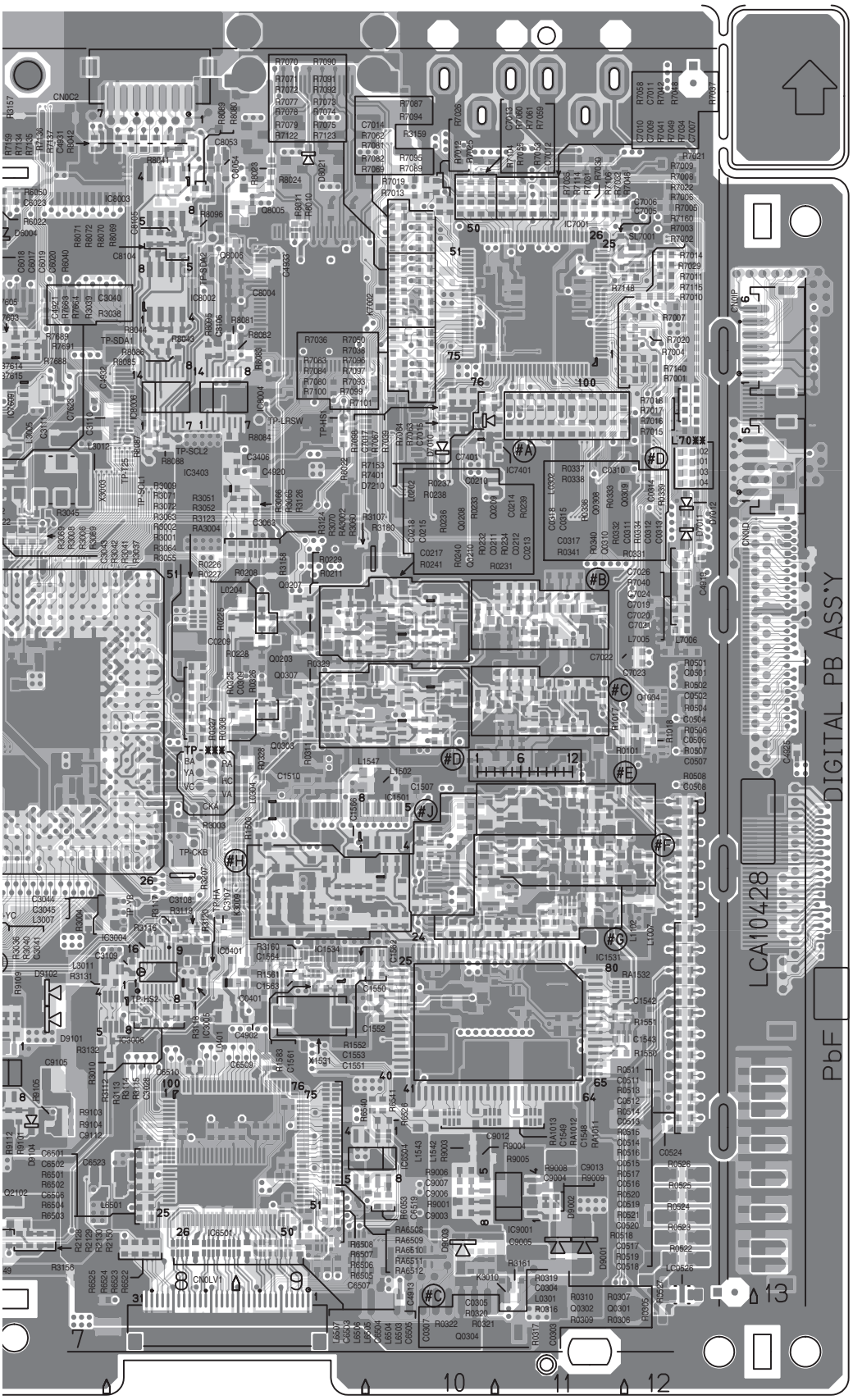
TOP



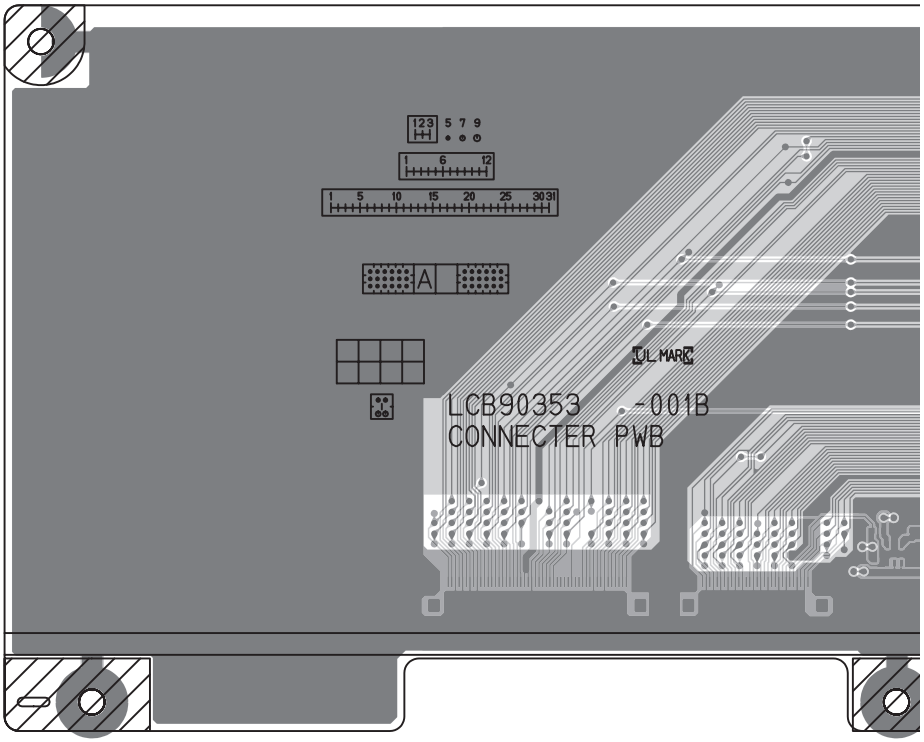

LCB10428-001G
DIGITAL PWB
Zdiff=100Ω(W=0.285mm G=0.155mm)
A面

DIGITAL SIGNAL PWB PATTERN [PARTS SIDE]



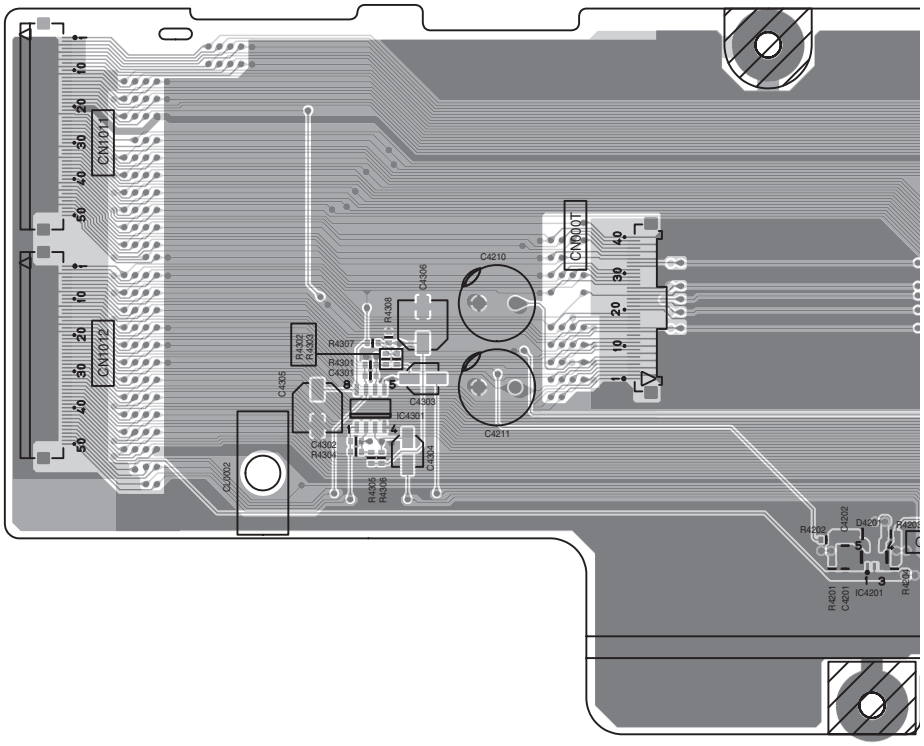

DIGITAL PB ASS'Y
LCA10428
PbF
TOP

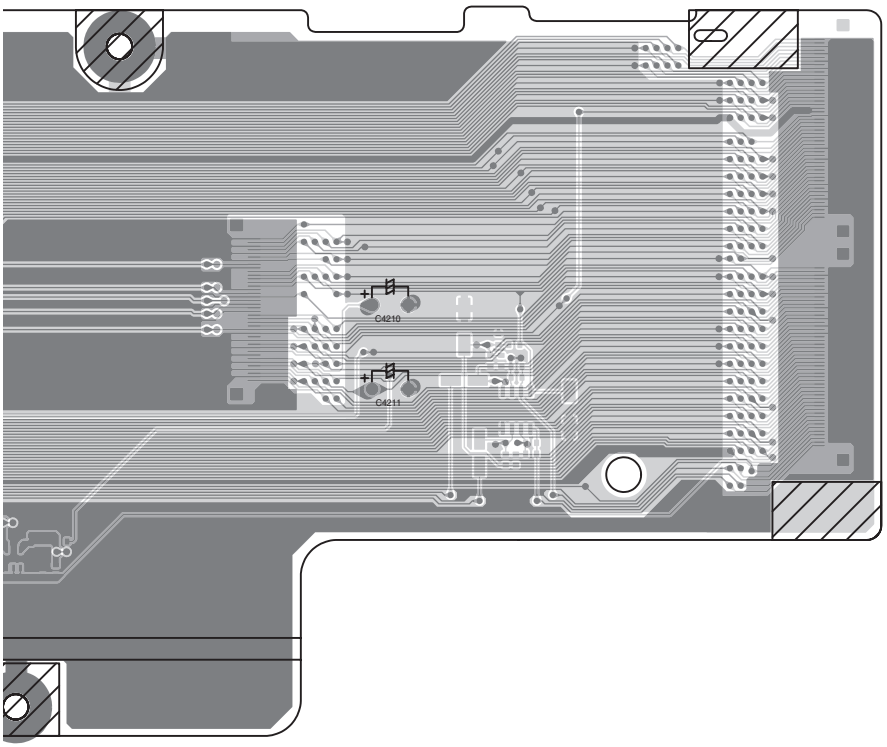
CONNECTOR PWB PATTERN [SOLDER SIDE]



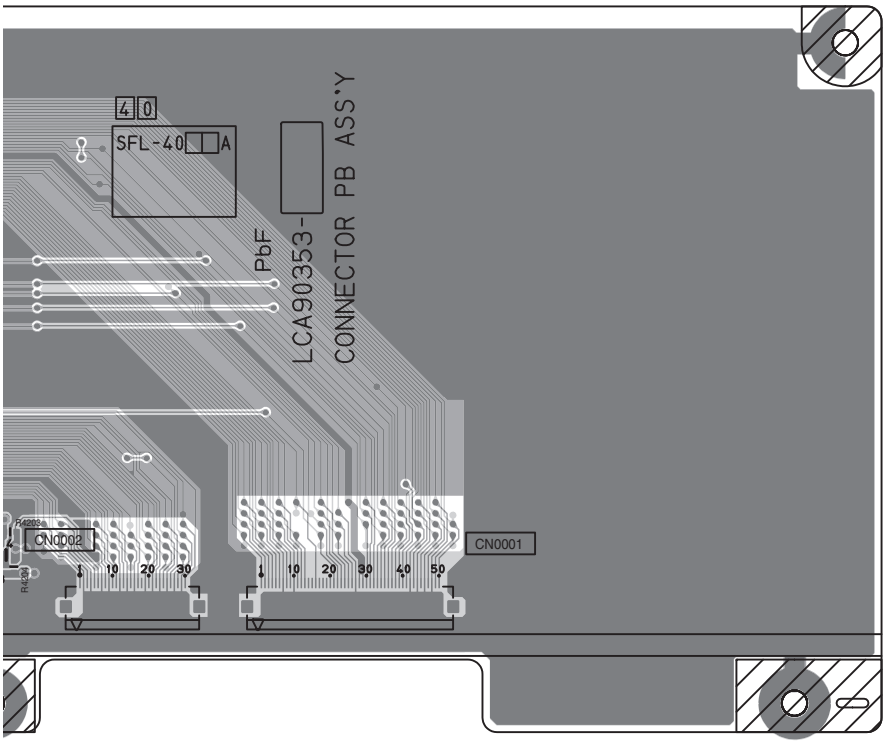
CONNECTOR PWB PATTERN [PARTS SIDE]

TOP



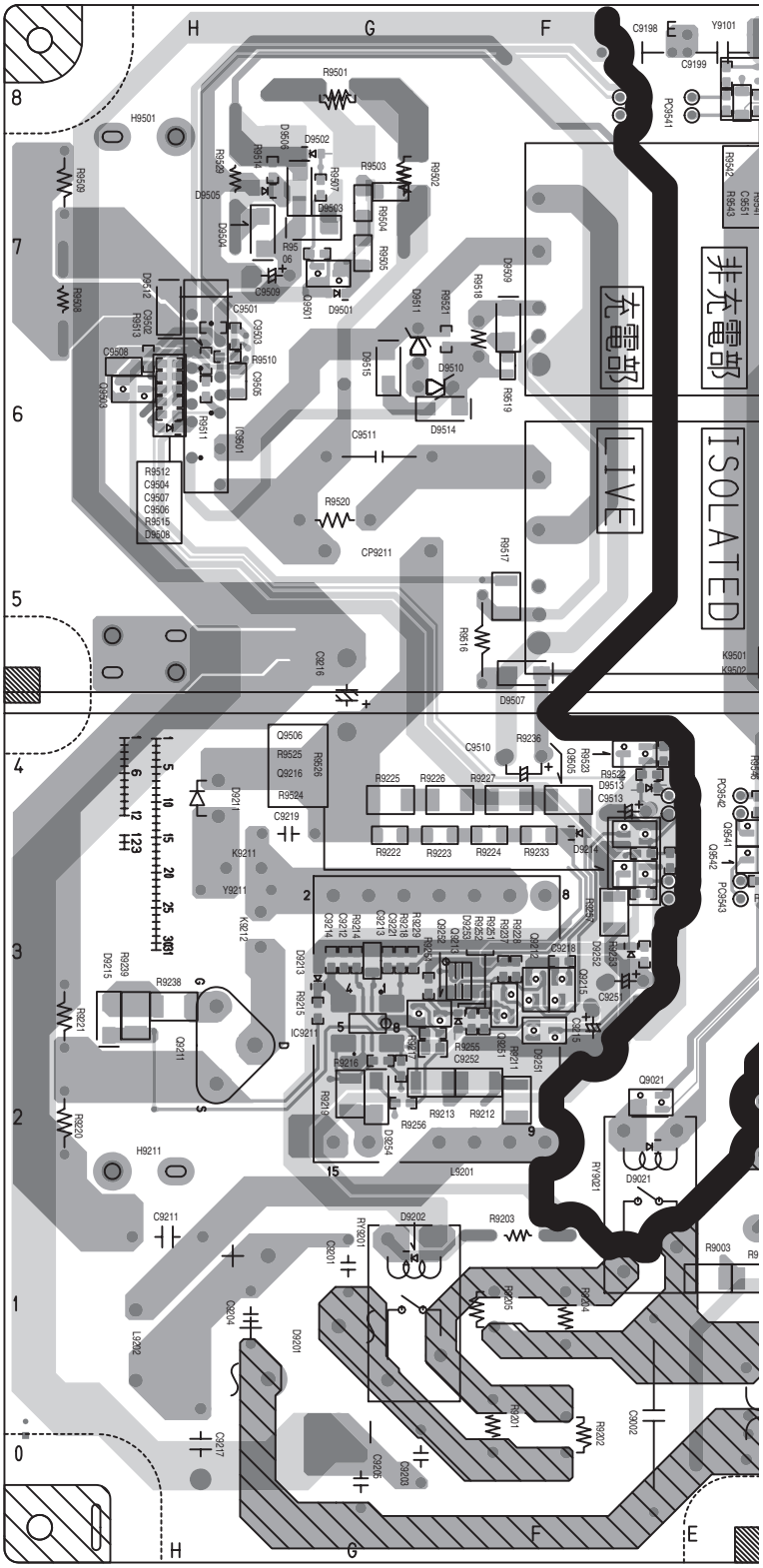

C4210
C4211

TOP

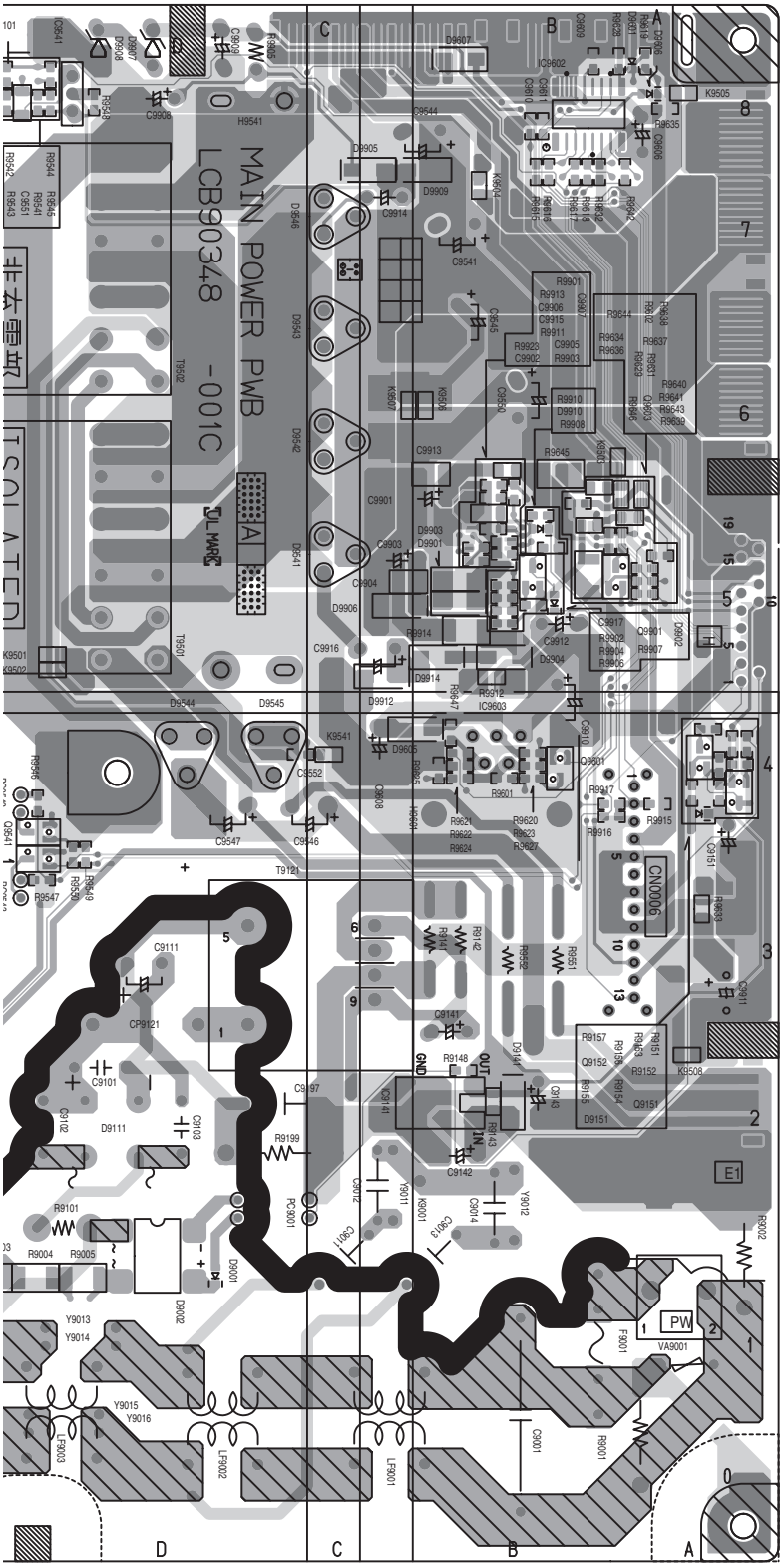

40
SFL-40 A
PbF
LCA90353-
CONNECTOR PB ASS'Y
CN0002
CN0001
1 10 20 30
1 10 20 30 40 50

POWER PWB PATTERN [SOLDER SIDE]

FRONT

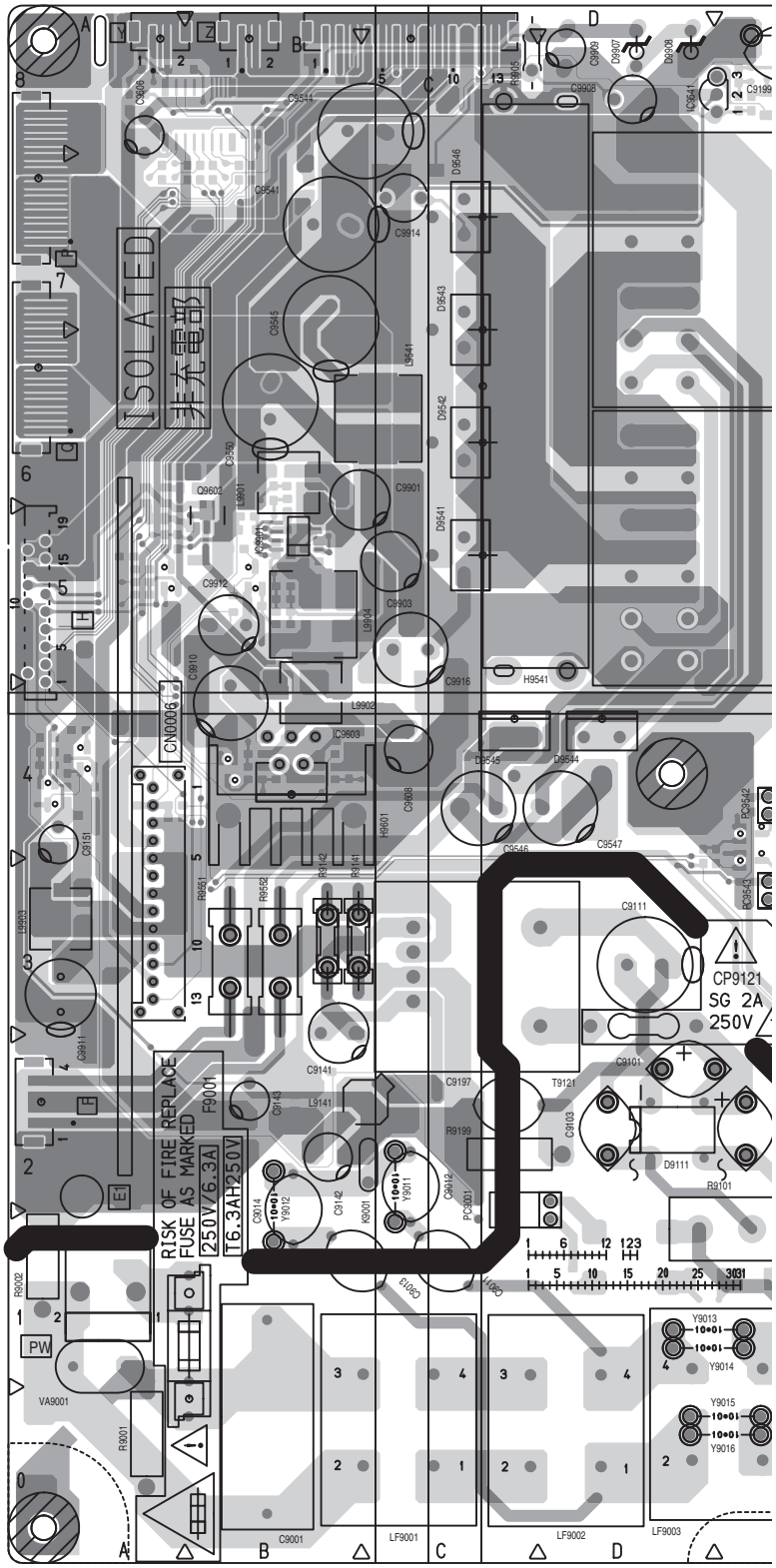


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S)
AND ROHM'S MFR'S TYPE CP(S).

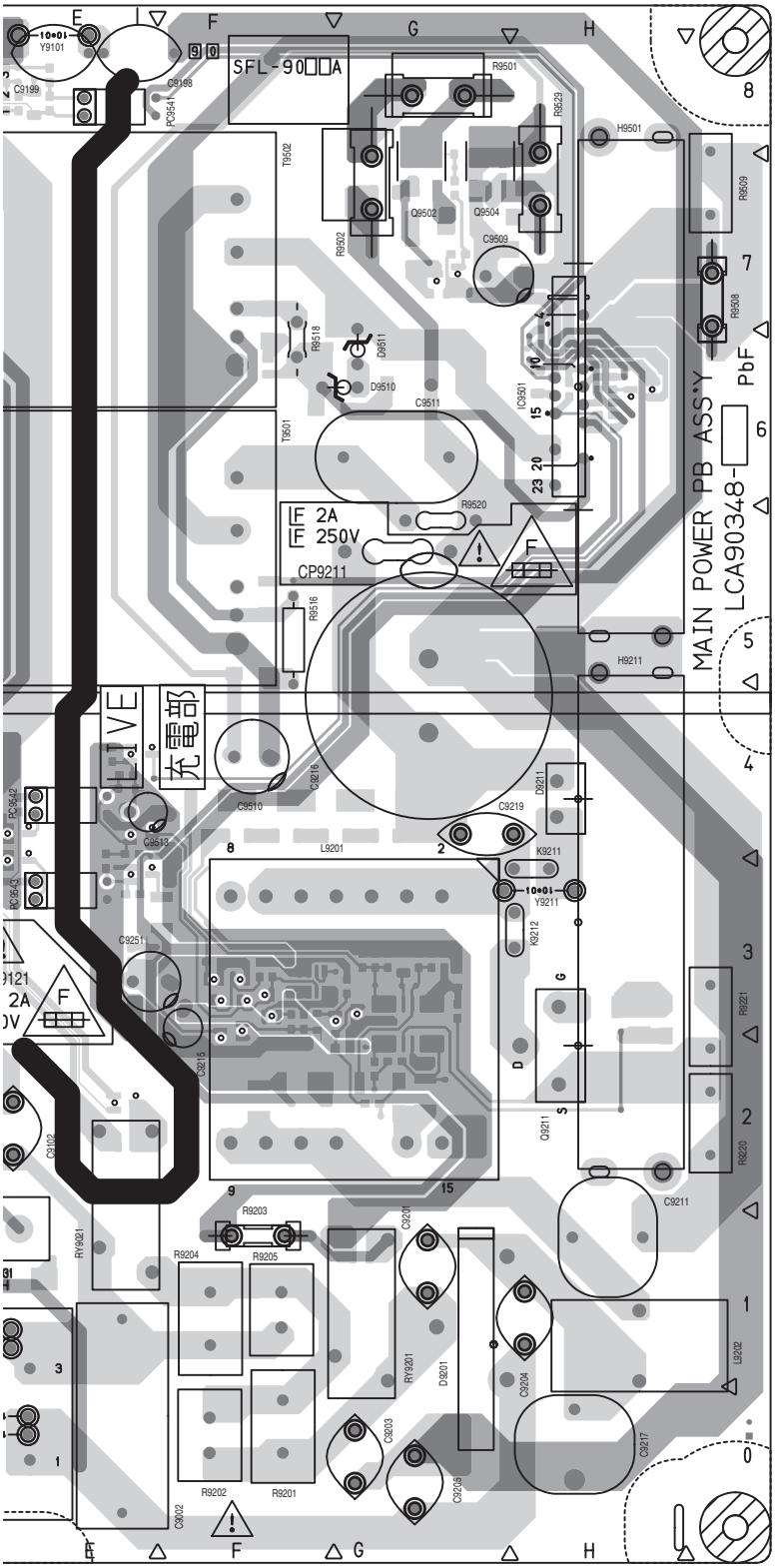


POWER PWB PATTERN [PARTS SIDE]

FRONT

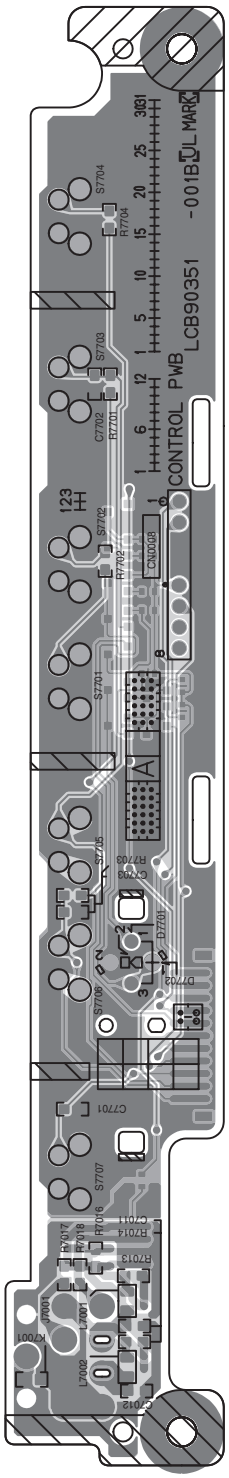


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S)
AND ROHM'S MFR'S TYPE CP(S).



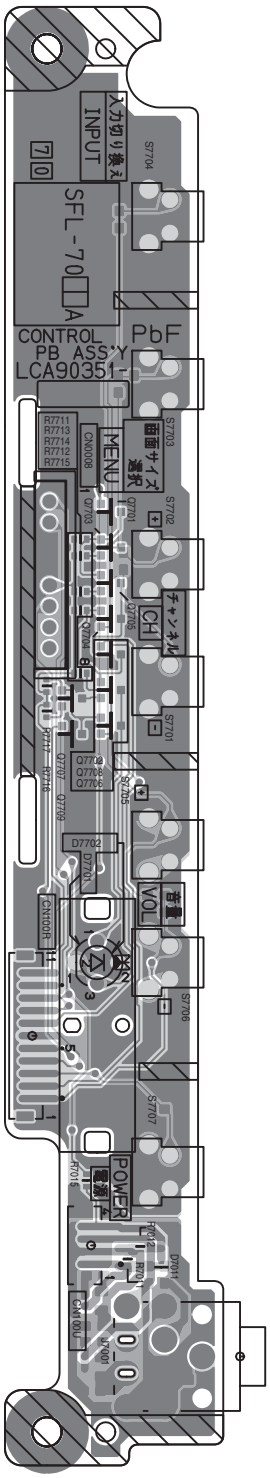
FRONT CONTROL PWB PATTERN [SOLDER SIDE]

TOP



FRONT CONTROL PWB PATTERN [PARTS SIDE]

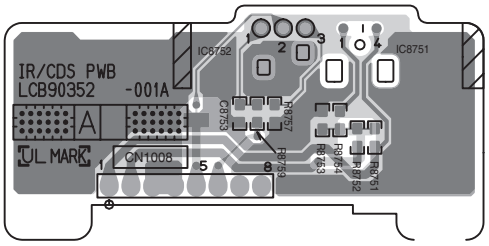
TOP



]

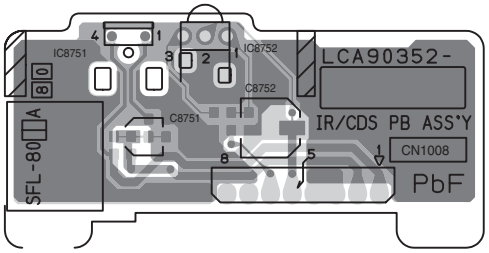
FRONT SENSOR PWB PATTERN [SOLDER SIDE]

TOP



FRONT SENSOR PWB PATTERN [PARTS SIDE]

TOP



VOLTAGE CHARTS

<RECEIVER>

[P.2-7 - P.2-8]

MODE PIN NO.	DC (V)
IC3101	
1	4.1
2	4.1
3	4.1
4	4.1
5	4.9
6	4.8
7	0
8	0
9	4.1
10	4.1
11	4.0
12	4.3
13	4.0
14	1.3
15	1.2
16	0
17	0
18	3.2
19	9.0
20	0
21	4.1
22	4.1
23	4.1
24	3.9
25	4.0
26	4.0
27	4.1
28	2.1
29	4.0
30	2.1
31	2.0
32	4.0
33	4.1
34	4.1
35	4.0
36	4.0
37	4.1
38	4.1
39	4.1
40	4.1
41	1.2
42	4.1
43	4.1
44	4.0
45	4.1
46	4.1
47	4.1
48	4.1
IC3102	
1	4.5
2	4.5
3	4.5
4	0
5	4.4
6	4.5
7	4.5
8	9.0
Q3001	
E	3.7
C	0
B	3.1
Q3002	
E	3.1
C	9.0
B	3.7
TU3001	
2	0
3	5.0
4	0
5	0
6	0
7	0.8
8	1.8
9	0
10	5.2
11	5.2
12	3.1
13	2.9
14	0
15	31.3
16	0
17	1.9

<ANALOG SIGNAL>

[P.2-9 - P.2-10]

MODE PIN NO.	DC (V)
IC501	
1	4.0
2	4.5
3	4.0
4	4.5
5	4.4
6	0
7	0
8	4.0
9	4.5
10	4.0
11	4.5
12	4.5
13	0
14	0
15	4.0
16	4.5
17	4.0
18	4.5
19	4.4
20	0
21	0
22	4.0
23	4.5
24	4.0
25	4.5
26	4.5
27	0
28	5.0
29	4.5
30	4.0
31	4.5
32	9.1
33	4.9
34	4.9
35	0
36	4.5
37	4.5
38	4.5
39	3.8
40	4.4
41	4.4
42	9.1
43	4.5
44	4.3
45	4.5
46	3.8
47	4.5
48	0
49	4.8
50	4.5
51	4.5
52	4.5
53	4.4
54	4.5
55	3.8
56	4.0
57	0
58	4.4
59	4.5
60	4.0
61	4.4
62	4.5
63	4.3
64	4.5
Q2051	
E	0
C	0
B	-0.4
Q2052	
E	0
C	0
B	-0.3
Q2055	
E	0
C	0
B	0

[P.2-11 - P.2-12]

MODE PIN NO.	DC (V)
IC711	
1	5.2
2	5.3
3	4.6
4	4.6
5	4.6
6	4.6
7	0.3
8	0
9	5.3
10	5.3
11	5.3
12	5.3
13	0
14	5.0
15	4.9
16	5.3
IC801	
1	2.3
2	1.9
3	1.4
4	0.2
5	2.3
6	5.1
7	2.6
8	0
9	0.2
10	0.8
11	2.4
12	5.1
13	4.8
14	4.9
15	0
16	0
17	0
18	0
19	0
20	2.5
21	1.7
22	1.9
23	1.9
24	0
25	2.2
26	2.2
27	2.2
28	0
29	0
30	0
31	0
32	5.1
33	2.3
34	2.4
35	2.5
36	0
37	5.1
38	4.1
39	1.8
40	3.3
41	2.1
42	4.7
43	1.8
44	2.1
45	0
46	2.9
47	3.8
48	1.8
IC802	
1	1.3
2	3.2
3	5.1
4	2.5
5	0
6	1.9
7	2.4
8	0
9	0
10	0
11	5.0
12	0
13	5.1
14	0
15	4.8
16	4.7
17	0
18	0
19	2.5
20	5.1
21	0
22	2.9
23	2.9
24	3.4
25	3.3
26	0
27	3.8
28	1.6
Q402	
S	3.2

MODE PIN NO.	DC (V)
D	2.9
G	4.9
Q403	
S	3.1
D	3.0
G	4.9
Q404	
S	3.2
D	3.2
G	5.2
Q405	
S	3.1
D	3.2
G	5.2
Q801	
E	2.8
C	0
B	2.1
Q802	
E	2.6
C	0
B	2.0
Q810	
E	2.0
C	0
B	1.3
Q851	
E	1.6
C	0
B	1.0
Q853	
E	2.0
C	9.0
B	2.7
Q854	
E	2.7
C	9.0
B	3.2
Q855	
E	1.9
C	0
B	1.3
Q858	
E	3.1
C	9.0
B	3.87
Q859	
E	3.7
C	0
B	3.1
Q862	
E	1.0
C	4.1
B	1.6
Q863	
E	3.4
C	5.1
B	4.1

[P.2-13 - P.2-14]

MODE PIN NO.	DC (V)
IC201	
1	0.4
2	0.2
3	0
4	0
5	0
6	0
7	6.2
8	0
9	4.9
10	0
11	8.8
12	1.2
13	0
14	0
15	0.1
16	0
17	0
18	0
19	0.6
20	0
21	4.9
22	4.8
23	0
24	2.1
25	1.2
26	2.1
27	0
28	0.2
29	0
30	5.2
IC301	
1	5.2
2	4.9
3	4.9
4	0
5	4.6
6	00
7	4.7
8	5.1
9	4.7
10	0.5
11	4.5
12	4.5
13	0
14	4.7
15	0
16	4.7
17	5.1
18	4.7
19	0.5
20	4.5
21	4.5
22	0
23	4.5
24	4.5
25	0
26	4.3
27	4.4
28	0
29	0
30	4.3
31	9.0
32	0
33	0
34	0
35	4.5
36	4.5
37	0
38	4.5
39	4.5
40	0
41	4.5
42	0
43	4.6
44	0
45	0
46	4.6
47	9.0
48	4.7
49	0
50	4.7
51	0
52	4.7
53	0.5
54	4.5
55	4.5
56	0
57	4.7
58	0
59	4.7
60	0
61	4.7
62	0.5
63	4.5
64	4.5
65	0

MODE PIN NO.	DC (V)
66	4.7
67	2.5
68	4.7
69	0.1
70	4.5
71	0
72	0
73	5.2
74	4.7
75	0
76	0
77	0
78	4.5
79	4.5
80	0
Q301	
E	3.8
C	9.0
B	4.5
Q302	
E	3.7
C	9.0
B	4.5
Q303	
E	3.7
C	9.0
B	4.5
Q307	
E	2.9
C	0
B	2.2

[P.2-15 - P.2-16]

MODE PIN NO.	DC (V)
IC6001	
1	8.8
2	4.1
3	0.4
4	0.8
5	4.0
6	2.0
7	0
8	0
9	4.1
10	4.1
11	0.8
12	0.4
13	4.1
14	0
IC6201	
1	15.6
2	2.8
3	12.3
4	2.6
5	0
IC6521	
1	6.2
2	6.2
3	6.1
4	6.1
5	6.1
6	6.2
7	6.2
8	6.2
9	0.9
10	6.2
11	3.2
12	3.1
13	4.9
14	5.0
15	0
16	12.3
17	0
18	0
19	5.9
20	6.4
21	6.2
22	6.2
23	6.2
24	6.2
25	6.2
26	6.1
27	6.1
28	6.2
29	6.2
30	6.1
IC6551	
1	6.3
2	6.1
3	6.2
4	0
5	6.2
6	6.2
7	6.3
8	12.3
IC6552	
1	6.2
2	6.3
3	6.2
4	0
5	6.1
6	6.2
7	6.2
8	12.3
IC6621	
1	-15.9
2	0.2
3	0
4	-15.9
5	0
6	0
7	-15.9
8	15.0
IC6661	
1	-15.9
2	-15.9
3	-15.8
4	-15.8
5	15.6
6	10.5
7	1.8
8	-15.9
9	-15.9
10	-15.9
11	1.9
12	10.6
13	15.6
14	-15.8
15	-15.3
16	-15.9
17	-15.9

MODE PIN NO.	DC (V)
Q6301	
E	5.4
C	12.2
B	6.0
Q6302	
E	5.4
C	12.3
B	5.9
Q6431	
E	9.0
C	-1.4
B	9.4
Q6521	
E	0
C	0
B	-0.2
Q6522	
E	0
C	0
B	-0.2
Q6523	
E	0
C	-0.3
B	0
Q6531	
E	0
C	2.8
B	0
Q6532	
E	0
C	0
B	0.6
Q6533	
E	0
C	0
B	0.6
Q6534	
E	0.7
C	0.6
B	0.1
Q6538	
E	0
C	0
B	0
Q6539	
E	0
C	0
B	0
Q6661	
E	15.6
C	15.5
B	0
Q6662	
E	-15.9
C	-15.8
B	-15.2
Q6663	
E	0
C	0
B	2.8
Q6672	
E	0
C	8.9
B	0
Q6673	
E	8.5
C	-0.2
B	8.9

[P.2-17 - P.2-18]

MODE PIN NO.	DC (V)
IC902	
1	5.0
2	0
3	3.2
Q902	
E	5.9
C	5.2
B	5.2

<DIGITAL SIGNAL>

[P.2-19 - P.2-20]

MODE PIN NO.	DC (V)
IC1502	
1	4.3
2	0
3	4.4
4	0
5	3.6
6	0
7	3.6
8	0

[P.2-21 - P.2-22]

MODE PIN NO.	DC (V)
IC0401	
1	3.2
2	0.2
3	0
4	3.2
5	3.3
Q0101	
E	2.8
C	8.0
B	3.8
Q0102	
E	8.7
C	3.7
B	8.0
Q0104	
E	4.4
C	0
B	3.7
Q0107	
E	1.6
C	0
B	0.8
Q0108	
E	0.8
C	9.1
B	1.5
Q0109	
1	1.4
2	0
3	0
4	1.5
5	0
6	1.5
Q0110	
1	0
2	0.6
3	0
4	0
5	0.6
6	0
Q0201	
E	3.0
C	7.9
B	3.7
Q0202	
E	8.7
C	3.9
B	7.9
Q0203	
E	0
C	2.0
B	0
Q0204	
E	4.7
C	0
B	4.0
Q0207	
E	2.5
C	0
B	2.0
Q0208	
E	1.8
C	9.1
B	2.4
Q0209	
1	2.4
2	0.1
3	0
4	2.5
5	0
6	0
Q0210	
1	0
2	0.6
3	0.1
4	0.1
5	0.5
6	0.1
Q0301	
E	3.1
C	7.9
B	3.8
Q0302	
E	8.7
C	3.9
B	7.8
Q0303	
E	0
C	2.0
B	0
Q0304	
E	4.7
C	0
B	4.0
Q0307	
E	2.5
C	0

MODE PIN NO.	DC (V)
B	2.0
Q0308	
E	1.8
C	9.1
B	2.4
Q0309	
1	0
2	0.1
3	2.4
4	2.5
5	0.1
6	2.5
Q0310	
1	0
2	0
3	0.6
4	0.1
5	0.3
6	0.1

[P.2-23 - P.2-24]

MODE PIN NO.	DC (V)
IC1001	
1	2.5
2	1.0
3	1.2
4	0
5	3.3
6	1.7
7	1.6
8	0
9	0
10	1.5
11	0.2
12	0.2
13	0.2
14	0
15	0.2
16	0.2
17	1.5
18	0.2
19	0.2
20	0
21	1.5
22	0.2
23	0.2
24	3.3
25	0.2
26	0.1
27	0
28	0
29	0
30	3.2
31	3.2
32	3.2
33	0
34	0
35	0
36	1.5
37	0
38	0
39	0
40	0
41	0
42	3.3
43	0.7
44	0.9
45	0
46	0.7
47	1.9
48	1.9
49	0
50	0
51	1.5
52	0
53	2.5
54	1.3
55	1.4
56	0
57	0
58	1.3
59	1.5
60	0
61	0
62	0
63	1.1
64	3.3
65	1.0
66	0.8
67	0
68	1.0
69	1.0
70	1.5
71	0.9
72	0.8

MODE PIN NO.	DC (V)
73	0
74	2.3
75	0.2
76	0
77	1.6
78	1.5
79	0
80	1.1
81	0.9
82	1.7
83	1.3
84	0
85	1.1
86	0
87	0.8
88	0.8
89	1.7
90	1.2
91	2.5
92	1.1
93	0
94	1.2
95	0.8
96	2.5
97	2.0
98	0
99	1.1
100	1.5
Q1001	
E	0
C	3.3
B	0
Q1003	
E	1.4
C	2.5
B	2.0
Q1004	
E	4.3
C	0
B	3.7
Q1101	
E	3.0
C	9.0
B	3.7
Q1103	
E	1.8
C	0
B	1.2
Q1201	
E	3.8
C	9.1
B	4.5
Q1203	
E	2.1
C	0
B	1.4
Q1301	
E	3.9
C	9.1
B	4.6
Q1303	
E	2.6
C	0
B	2.0
Q1401	
E	4.0
C	9.1
B	4.6
Q1403	
E	2.6
C	0
B	1.9

[P.2-27 - P.2-28]

MODE PIN NO.	DC (V)
IC3004	
1	3.2
2	3.3
3	0
4	0.2
5	3.3
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	5.3
IC3005	
1	0
2	0
3	0
4	0
5	3.3
IC3006	
1	3.2
2	0.2
3	0
4	0
5	0
6	0
7	0
8	3.3
IC3403	
1	0
2	3.3
3	0
4	3.3
IC3501	
1	1.2
2	2.4
3	1.2
4	1.2
5	0
6	1.2
7	1.2
8	2.4
9	1.2
10	1.2
11	0
12	1.2
13	1.2
14	2.4
15	2.4
16	0
17	1.2
18	1.2
19	0
20	1.2
21	1.2
22	2.5
23	0.4
24	0.4
25	1.7
26	1.7
27	1.7
28	0
29	0.7
30	0.7
31	0.7
32	0.7
33	0.7
34	0.7
35	2.4
36	0.7
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0.7
46	0
47	0.7
48	0.7
49	0.7
50	0.7
51	0.7
52	0
53	1.7
54	1.3
55	1.2
56	0.4
57	0.4
58	1.2
59	2.5

-28] (V)
3.2
3.3
0
0.2
3.3
0
0
0
0
0
0
0
5.3
0
0
0
0
3.3
3.2
0.2
0
0
0
0
0
3.3
0
3.3
0
3.3
1.2
2.4
1.2
1.2
0
1.2
1.2
1.2
2.4
1.2
1.2
0
1.2
1.2
1.2
2.4
2.4
0
1.2
1.2
0
1.2
1.2
2.5
0.4
0.4
1.7
1.7
1.7
0
0.7
0.7
0.7
0.7
0.7
0.7
2.4
0.7
0
0
0
0
0.7
0
0.7
0.7
0.7
0.7
0
1.7
1.3
1.2
0.4
0.4
1.2
2.5

MODE PIN NO.	DC (V)
60	1.2
61	1.2
62	0
63	1.2
64	1.2
65	2.4
66	0
67	2.4
68	1.2
69	1.2
70	0
71	1.2
72	1.2
73	2.4
74	1.2
75	1.2
76	0
77	1.2
78	1.2
79	2.5
80	1.2
81	1.2
82	0
83	1.2
84	1.2
85	0
86	0
87	0
88	0
89	0
90	0
91	0
92	0
93	0
94	1.2
95	2.4
96	0
97	1.2
98	1.2
99	0
100	1.2
IC3502	
1	1.2
2	2.4
3	1.2
4	1.2
5	0
6	1.2
7	1.2
8	2.4
9	1.2
10	1.2
11	0
12	1.2
13	1.2
14	2.4
15	2.4
16	0
17	1.2
18	1.2
19	0
20	1.2
21	1.2
22	2.5
23	0.4
24	0.4
25	1.7
26	1.7
27	1.7
28	0
29	0.7
30	0.6
31	0.7
32	0.7
33	0.7
34	0.7
35	2.4
36	0.7
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0.7
46	0
47	0.7
48	0.7
49	0.7
50	0.7
51	0.7
52	0
53	1.7
54	1.3
55	1.2

MODE PIN NO.	DC (V)
56	0.4
57	0.4
58	1.2
59	2.5
60	1.2
61	1.2
62	0
63	1.2
64	1.2
65	2.5
66	0
67	2.4
68	1.2
69	1.2
70	0
71	1.2
72	1.2
73	2.4
74	1.2
75	1.2
76	0
77	1.2
78	1.2
79	2.5
80	1.2
81	1.2
82	0
83	1.2
84	1.2
85	0
86	2.5
87	0
88	0
89	0
90	0
91	0
92	0
93	0
94	1.2
95	2.5
96	2.5
97	1.2
98	1.2
99	0
100	0
IC3503	
1	0
2	2.4
3	1.2
4	1.2
5	2.5
6	2.4
7	2.5
8	1.2
Q3001	
E	2.2
C	3.3
B	2.8
Q3002	
E	2.9
C	0
B	2.2
Q3003	
E	0.7
C	3.3
B	1.4
Q3004	
E	1.4
C	0
B	0.7

[P.2-29 - P.2-30]

MODE PIN NO.	DC (V)
IC4003	
1	0
2	0
3	0
4	0
5	0
6	0
7	3.2
8	3.3
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0.3
22	0.5
23	0.4
24	0
25	0.5
26	0.5
27	0.5
28	0.5
29	0.4
30	3.3
31	0
32	3.3
IC4004	
1	0
2	0
3	0
4	0
5	3.3
6	3.2
7	0
8	3.3
IC4005	
1	2.7
2	1.4
3	0
4	-1.0
5	3.3
Q4001	
E	0
C	0.3
B	0.6

[P.2-31 - P.2-32]

MODE PIN NO.	DC (V)
IC6502	
1	3.3
2	0.8
3	1.4
4	0
5	0
6	0.3
7	0
8	0
9	3.2
10	0.9
11	0
12	0.3
13	0
14	1.5
15	1.1
16	0
17	0
18	0.6
19	0.7
20	0.8
21	0
22	0.4
23	0.4
24	0
25	1.6
26	3.2
27	3.3
28	0
29	0
30	2.7
31	1.2
32	3.3
33	0
34	0
35	0
36	0
37	1.1
38	1.3
39	1.2

MODE PIN NO.	DC (V)
40	1.2
41	1.2
42	1.2
43	0
44	3.3
45	1.1
46	1.3
47	1.1
48	1.3
49	0
50	0.7
51	0.9
52	0.8
53	0
54	0.4
55	0.4
56	0.7
Q6501	
E	0
C	4.7
B	0
CN000W	
1	2.9
2	3.3
3	0
4	0
5	3.0
6	3.0
7	3.0
8	4.5
9	4.9
10	0
11	0.2
12	0
CN0LV2	
1	0
2	0
3	1.3
4	1.1
5	0
6	0
7	1.3
8	0.1
9	0
10	0
11	1.2
12	1.2
13	0
14	0
15	1.2
16	1.3
17	0
18	0
19	1.2
20	1.2
21	0
22	0
23	0
24	3.3
25	3.3
26	0
27	4.9
28	4.9
29	4.9
30	4.9
31	3.3

[P.2-33 - P.2-34]

MODE PIN NO.	DC (V)
IC6104	
1	3.3
2	0
3	0
4	3.3
5	2.5

[P.2-35 - P.2-36]

MODE PIN NO.	DC (V)
IC7601	
1	0.2
2	1.5
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	3.2
13	1.7
14	0
15	1.5
16	0
17	0
18	1.4
19	3.2
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	3.2
31	0
32	0
33	0
34	0
35	3.2
36	3.2
37	0
38	3.2
39	0
40	0
41	3.1
42	0
43	0
44	0
45	0
46	0
47	0
48	3.2
49	3.2
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	2.7
85	0
86	3.2
87	3.2
88	3.2
89	0
90	0
91	0
92	0
93	3.2
94	3.2
95	0
96	0.1

MODE PIN NO.	DC (V)
97	0.6
98	0
99	5.0
100	2.0
IC7602	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC7603	
1	0
2	0
3	0
4	3.2
5	3.3
IC7607	
1	2.0
2	2.0
3	5.2
4	1.7
5	0
6	5.3
IC7608	
1	2.0
2	2.0
3	5.3
4	1.7
5	0
6	5.3

[P.2-37 - P.2-38]

MODE PIN NO.	DC (V)
IC7001	
1	3.2
2	0
3	0
4	2.8
5	0
6	0
7	3.1
8	0
9	0
10	3.2
11	3.2
12	3.2
13	3.2
14	0
15	3.2
16	0
17	3.2
18	0
19	0
20	3.2
21	3.2
22	3.2
23	1.5
24	1.4
25	3.2
26	0
27	0
28	0
29	0
30	3.2
31	0
32	0
33	0
34	3.2
35	0
36	3.1
37	0
38	3.2
39	0
40	3.2
41	0
42	3.2
43	0
44	0
45	1.9
46	0
47	0
48	3.2
49	0
50	2.0
51	3.2
52	0
53	3.2
54	3.2
55	3.2
56	3.2
57	3.2
58	3.2

MODE PIN NO.	DC (V)
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	3.3
67	0
68	3.2
69	3.2
70	3.2
71	3.2
72	0
73	3.2
74	3.2
75	3.2
76	3.2
77	3.4
78	0
79	3.3
80	0
81	0
82	3.2
83	3.2
84	3.2
85	3.2
86	3.2
87	3.2
88	0
89	0
90	2.8
91	0
92	0
93	3.2
94	0
95	3.2
96	3.2
97	0
98	0
99	3.2
100	2.4
IC7002	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC7401	
1	3.2
2	3.2
3	0
4	0
Q7206	
E	0
C	2.0
B	1.0
Q7207	
E	3.2
C	3.2
B	0

[P.2-39 - P.2-40]

MODE PIN NO.	DC (V)
IC9001	
1	8.1
2	11.9
3	3.3
4	0
5	1.2
6	1.3
7	5.3
8	0
IC9101	
1	7.3
2	11.8
3	2.4
4	0
5	1.2
6	1.4
7	5.3
8	0
IC9201	
1	6.4
2	11.8
3	1.5
4	0
5	1.2
6	1.3
7	5.1
8	0

<CONNECTOR>
[P.2-41 - P.2-42]

MODE PIN NO.	DC (V)
IC4201	
1	0.6
2	0.6
3	0
4	0.2
5	3.3

<FRONT CONTROL>
[P.2-43 - P.2-44]

MODE PIN NO.	DC (V)
Q7701	
E	0
C	0
B	3.2
Q7702	
E	0
C	0
B	2.9
Q7703	
E	3.2
C	3.1
B	0
Q7704	
E	3.0
C	2.9
B	0
Q7705	
E	3.0
C	2.9
B	0

<FRONT SENSOR>
[P.2-45 - P.2-46]

MODE PIN NO.	DC (V)
IC8752	
1	3.7
2	5.0
3	0

<POWER>
[P.2-47 - P.2-48]

MODE PIN NO.	DC (V)
IC9141	
1	5.7
2	0
3	5.0
IC9211	
1	2.5
2	0
3	0.7
4	0
5	2.6
6	0
7	13.1
8	20.2
Q9021	
E	0
C	0.1
B	3.1
Q9151	
E	1.1
C	0
B	1.1
Q9152	
E	0
C	3.1
B	0
Q9211	
S	0
D	87.8
G	13.1
Q9212	
E	0
C	10.2
B	0
Q9213	
1	20.2
2	0
3	0
4	0
5	0
6	20.2
Q9251	
E	0
C	10.2
B	0.5
Q9252	
E	0
C	0
B	10.7

[P.2-49 - P.2-50]

MODE PIN NO.	DC (V)
IC9501	
4	0
7	20.3
8	0
10	4.9
11	1.1
12	4.9
13	3.0
14	0.8
15	5.0
16	1.3
19	256.5
20	255.3
23	378.2
IC9541	
1	2.4
2	0
3	9.0
IC9602	
1	0
2	4.9
3	4.9
4	5.3
5	0
6	5.3
7	0
8	0
9	0
10	0
11	0
12	0
13	5.3
14	0
15	0
16	0
IC9901	
1	13.4
2	11.9
3	9.1
4	0
5	1.2
6	1.2
7	3.1
8	0
Q9501	
E	0
C	0
B	0.6
Q9502	
S	0
D	0.4
G	378.2
Q9503	
E	0
C	0
B	0.6
Q9504	
S	22.6
D	20.9
G	39.8
Q9541	
E	0
C	0
B	3.2
Q9602	
E	11.2
C	11.8
B	11.9
Q9603	
E	0
C	0
B	5.2
Q9901	
E	0
C	0
B	0.6
CN000P	
1	12.0
2	12.0
3	12.0
4	12.0
5	12.0
6	0
7	0
8	0
9	0
10	0
CN000Q	
1	12.0
2	12.0
3	12.0
4	12.0
5	12.0
6	0
7	0
8	0
9	0

MODE PIN NO.	DC (V)
10	0

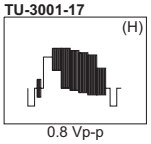
<REGULATOR>

MODE PIN NO.	DC (V)
IC9801	
1	9.1
2	6.0
3	7.1
4	2.6
5	0
IC9802	
1	10.0
2	11.9
3	5.2
4	0
5	1.2
6	1.2
7	3.1
8	0
IC9803	
1	9.6
2	11.9
3	5.2
4	0
5	1.2
6	1.5
7	5.1
8	1.6
Q9802	
E	0
C	0
B	0.6
Q9803	
E	0
C	0
B	0.6

WAVEFORMS

RECEIVER PWB
(SHEET1)

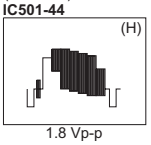
TU-3001-17



0.8 Vp-p

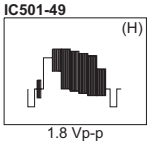
ANALOG SIGNAL PWB (1/5)
(SHEET2)

IC501-44



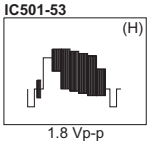
1.8 Vp-p

IC501-49



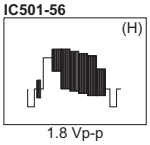
1.8 Vp-p

IC501-53



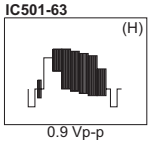
1.8 Vp-p

IC501-56



1.8 Vp-p

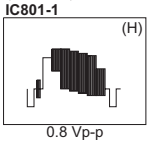
IC501-63



0.9 Vp-p

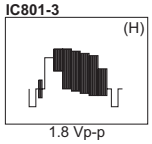
ANALOG SIGNAL PWB (2/5)
(SHEET3)

IC801-1



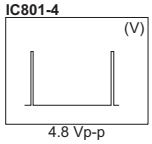
0.8 Vp-p

IC801-3



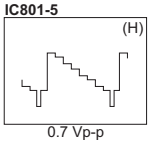
1.8 Vp-p

IC801-4



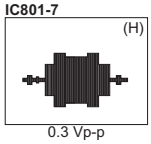
4.8 Vp-p

IC801-5



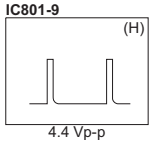
0.7 Vp-p

IC801-7



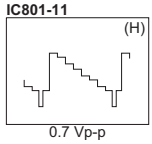
0.3 Vp-p

IC801-9



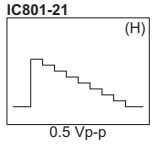
4.4 Vp-p

IC801-11



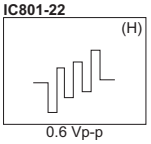
0.7 Vp-p

IC801-21



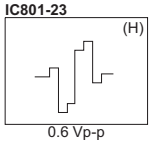
0.5 Vp-p

IC801-22



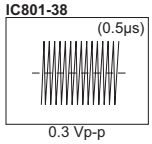
0.6 Vp-p

IC801-23



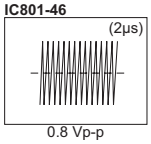
0.6 Vp-p

IC801-38



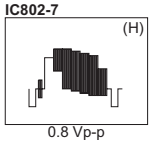
0.3 Vp-p

IC801-46



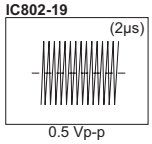
0.8 Vp-p

IC802-7



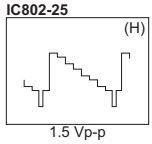
0.8 Vp-p

IC802-19



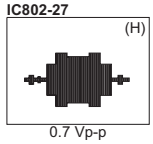
0.5 Vp-p

IC802-25



1.5 Vp-p

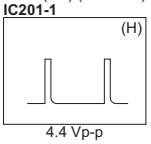
IC802-27



0.7 Vp-p

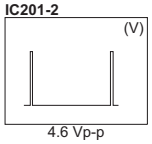
ANALOG SIGNAL
PWB (3/5) (SHEET4)

IC201-1



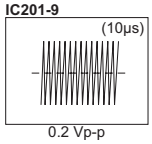
4.4 Vp-p

IC201-2



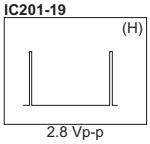
4.6 Vp-p

IC201-9



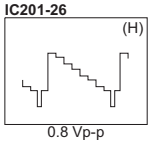
0.2 Vp-p

IC201-19



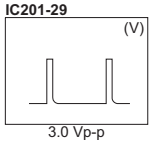
2.8 Vp-p

IC201-26



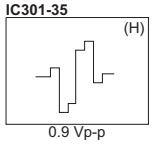
0.8 Vp-p

IC201-29



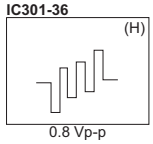
3.0 Vp-p

IC301-35



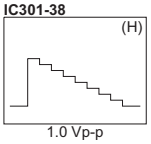
0.9 Vp-p

IC301-36



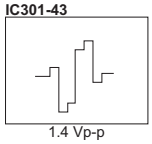
0.8 Vp-p

IC301-38



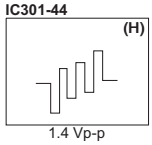
1.0 Vp-p

IC301-43



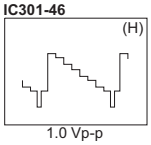
1.4 Vp-p

IC301-44



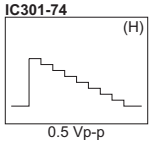
1.4 Vp-p

IC301-46



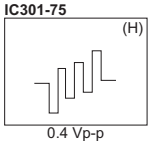
1.0 Vp-p

IC301-74



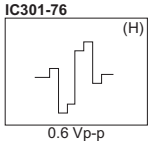
0.5 Vp-p

IC301-75



0.4 Vp-p

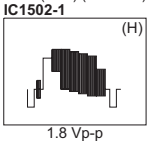
IC301-76



0.6 Vp-p

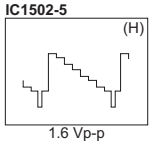
DIGITAL SIGNAL
PWB (1/11) (SHEET7)

IC1502-1



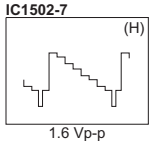
1.8 Vp-p

IC1502-5



1.6 Vp-p

IC1502-7



1.6 Vp-p

DIGITAL SIGNAL
PWB (3/11) (SHEET9)

IC1001-7

4.6 Vp-p

IC1001-58

4.8 Vp-p

IC1001-75

3.3 Vp-p

IC1001-76

3.2 Vp-p

IC1001-85

0.6 Vp-p

DIGITAL SIGNAL
PWB (7/11) (SHEET13)

IC1001-92

0.7 Vp-p

IC1001-94

0.7 Vp-p

IC6502-27

3.3 Vp-p

IC6502-28

3.2 Vp-p

DIGITAL SIGNAL
PWB (9/11) (SHEET15)

IC6502-31

3.0 Vp-p

IC7601-13

3.0 Vp-p

IC7601-15

2.4 Vp-p

IC7601-17

5.2 Vp-p

IC7601-97

1.7 Vp-p

IC7601-100

1.7 Vp-p

IC7607-2

2.0 Vp-p

IC7607-4

0.8 Vp-p

IC7608-2

2.0 Vp-p

IC7608-4

0.8 Vp-p

DIGITAL SIGNAL
PWB (10/11) (SHEET16)

IC7001-23

2.2 Vp-p

IC7001-24

4.2 Vp-p

IC7001-78

3.2 Vp-p

CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A B	14 15	I
			C D E F G H I	16 17 18 19 20 21 22	II
		SUPER	J K L M N O P Q R S T U V W	23 24 25 26 27 28 29 30 31 32 33 34 35 36	
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
			W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A B C D E F G H I	14 15 16 17 18 19 20 21 22	
		SUPER	J K L M N O	23 24 25 26 27 28	
			P Q R S T U V W	29 30 31 32 33 34 35 36	III
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	IV

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB MID	A-8 A-4	01 96	I
			A-3 A-2 A-1	97 98 99	II
○	×	UHF	14 〜 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

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SPECIAL ADAPTERS MAY BE REQUIRED.